DOM : ADVANCED

- ELEMENT HIERARCHY
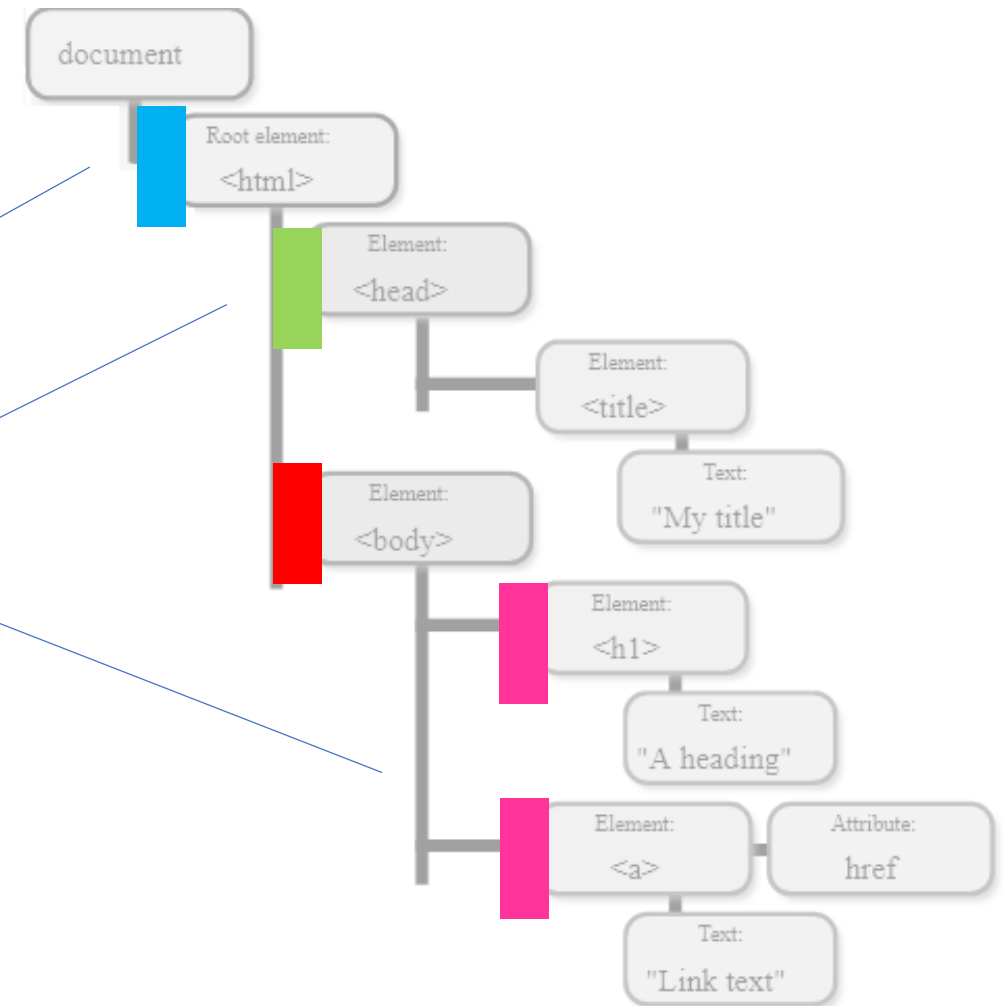- CSS

DOM hierarchy

ACTIVITY 1 🕐 15 MIN

Answer to questions on word document

Each **node** has a **parent**, **siblings** , **children**,

- **Parent** is **above**
- **Siblings** at **same level**
- **Children** are **below**

DOM is easy to read thanks to **tabulations**

```html
<html>

    <head>
        <title>DOM Tutorial</title>
    </head>
                        Parent
    <body>
        <h1 id="lesson number">DOM Lesson one</h1>    Siblings
        <p>Hello world!</p>
        <div id = "list">
            <ul>
                <li>
    Children     <span class='element'>First element</span>
                </li>
                <li>
                    <span class='element'>Second element</span>
                </li>
                <li>
                    <span class='element'>Third element</span>
                </li>
            </ul>
        </div>
    </body>

</html>
```

Selected node

Navigate the DOM

ACTIVITY 2 🕐 20 MIN

Answer to questions on word document

Properties to navigate the DOM

DEMO WITH CHROME

`parentNode`	Get the parent node of current node
`childNodes[`*nodenumber*`]` `firstChild` `lastChild`	Different methods to get the child nodes of current node (HTML collection of all child; first child; last child)
`nextSibling` `previousSibling`	Respectively get the next and previous sibling in the sibling collection of the current node.

Edit the DOM

ACTIVITY 3 🕐 20 MIN

Answer to questions on word document

Properties to edit the DOM

document.**createElement**(name)	Create an **HTML element** of the name type (*example* : p, div…) and returns it
element.**appendChild**(child)	Add child as a **child node** of the element

DEMO WITH CHROME

Add a new element

1-Create a element
From the document

2- Add this element
To an existing parent

```html
<html">
  <body id="theBody">
    <p>First paragraph</p>

    <script>
      let secondParagraph = document.createElement("p");
      secondParagraph.textContent = "Second paragraph";


      let body = document.getElementById("theBody");
      body.appendChild(secondParagraph)

    </script>
  </body>
</html>
```

Practice !

ACTIVITY 4   🕐 30-40 MIN

Answer to questions on word document

USE THE CHEAT SHEET

Now you should know this:

1- The DOM tree **Hierarchy**

     - Childs

     - Parent

     - Siblings

2- **Properties** of a Node to **navigate the DOM**

     - `parentNode`

     - `childNodes[nodenumber]/firstChild/lastChild`

     - `nextSibling/previousSibling`

3- **Functions** to **add elements** to a doc

     - `createElement`

     -`appendChild`

4- The **process to add new elements**

     1. Create the element

     2. Append your element to the target node