# The 3 Musketeers of Web Dev
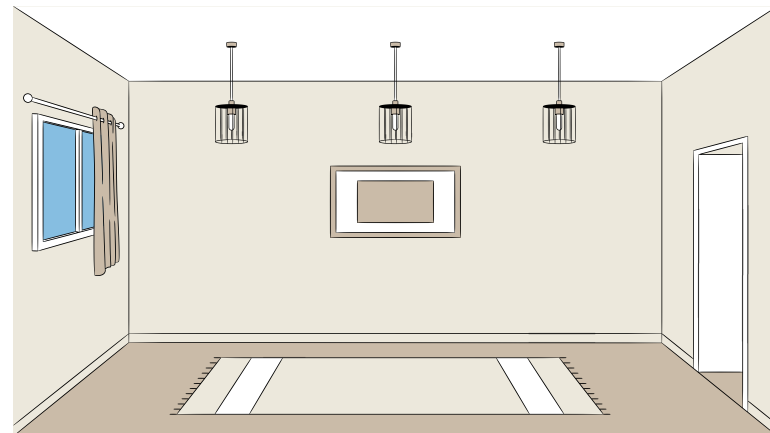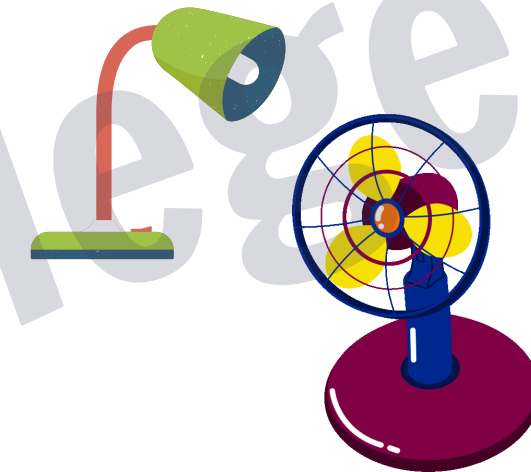
HTML
(structure)

CSS
(style)

JS
(logic)

# Starter Code

\<style\> tag connects HTML with CSS

\<script\> tag connects HTML with JS

```html
<html>
    <head>
        <title> Website Name </title>
    </head>
    <body>
        <!-- Content Tags -->
    </body>
</html>
```
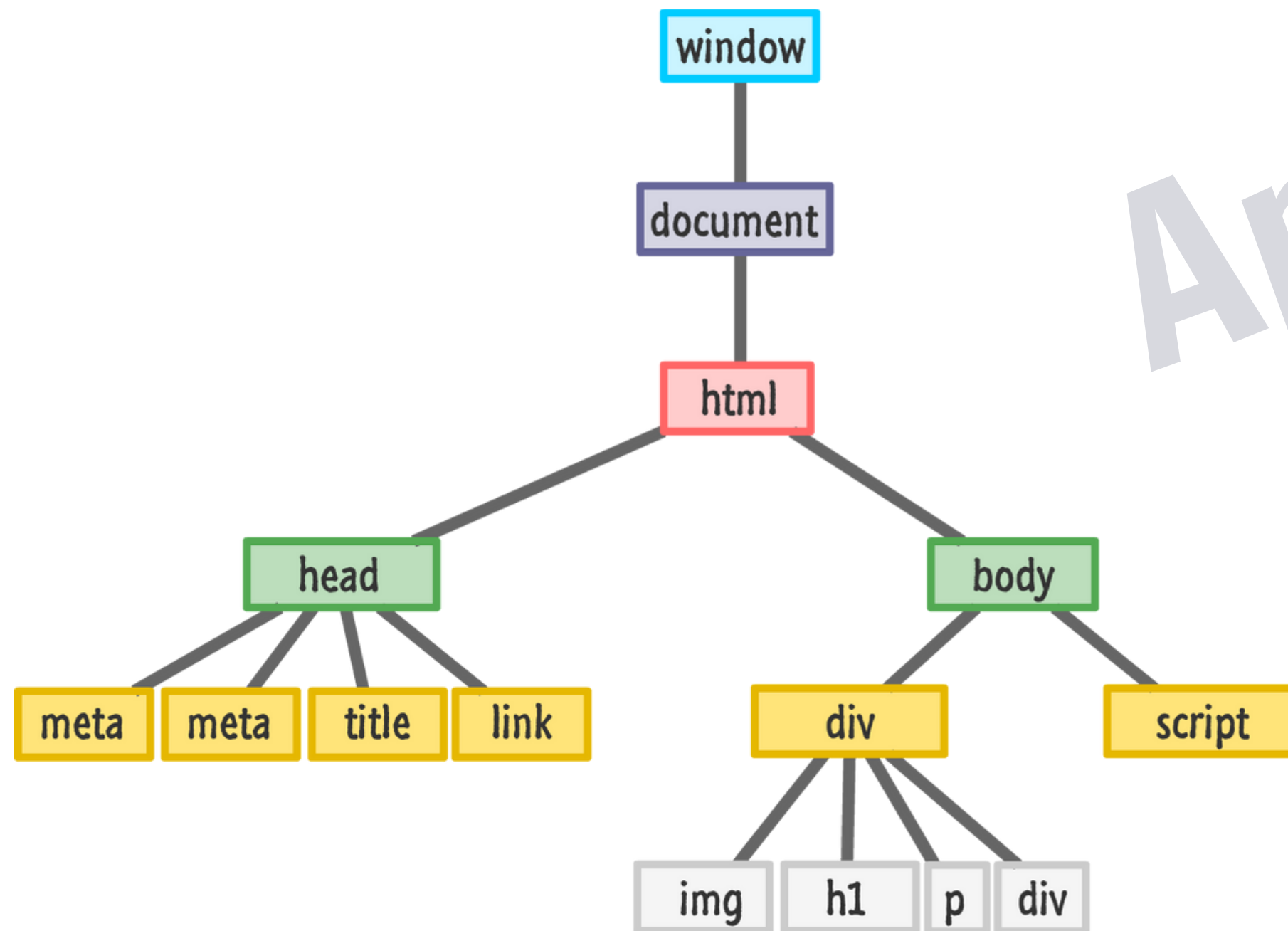
# Window Object

The window object represents an open window in a browser. It is browser's object (not JavaScript's) & is automatically created by browser.

It is a global object with lots of properties & methods.

# What is DOM?

When a web page is loaded, the browser creates a Document Object Model (DOM) of the page

# DOM Manipulation

**Selecting with id**

document.getElementById("myId")

**Selecting with class**

document.getElementsByClassName("myClass")

**Selecting with tag**

document.getElementsByTagName("p")

# DOM Manipulation

**Query Selector**

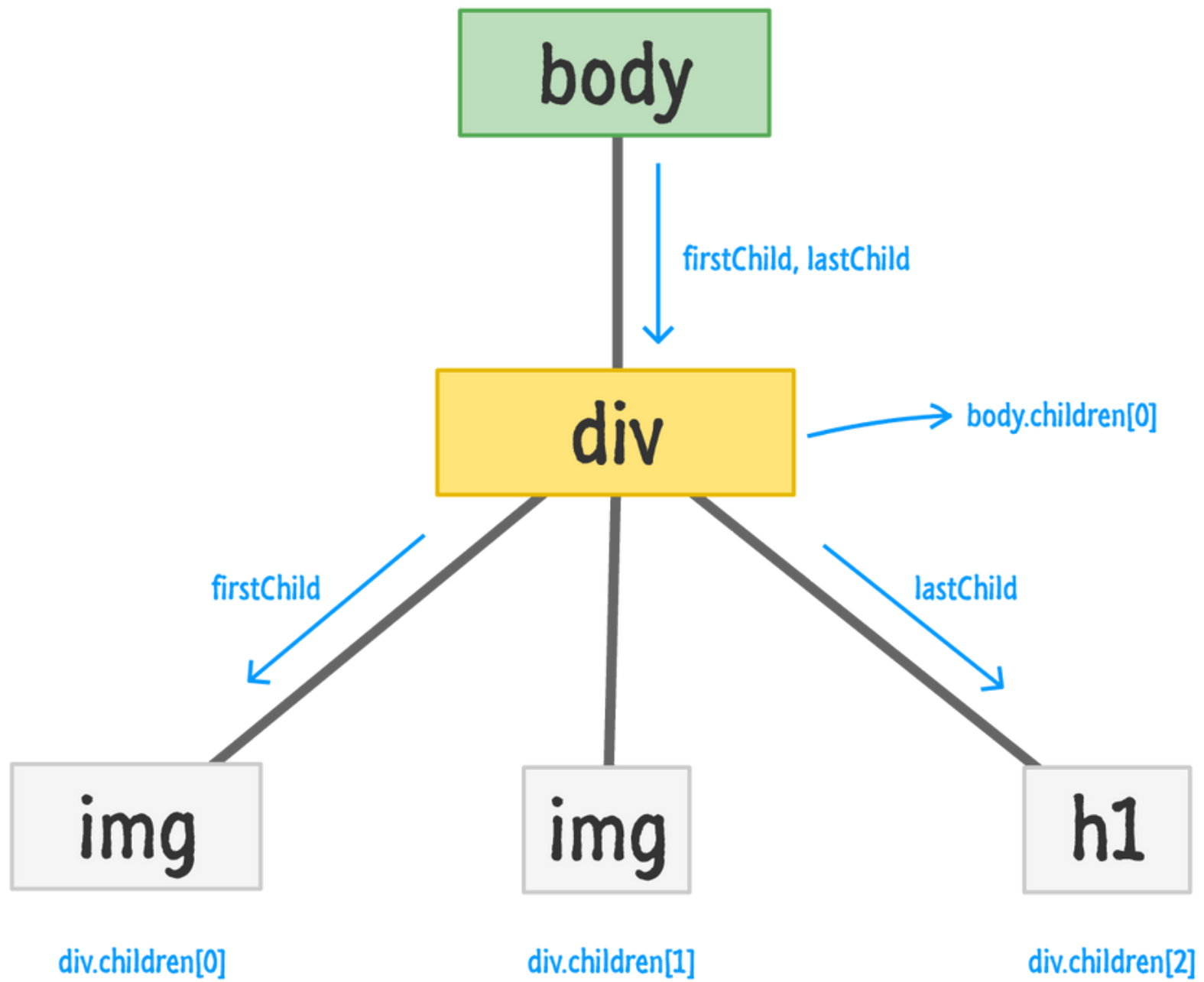document.querySelector("#myId / .myClass / tag")
//returns first element

document.querySelectorAll("#myId / .myClass / tag")
//returns a NodeList

# DOM Manipulation

**Properties**

- **tagName :** returns tag for element nodes

- **innerText :** returns the text content of the element and all its children

- **innerHTML :** returns the plain text or HTML contents in the element

- **textContent :** returns textual content even for hidden elements

# Homework

# Let's Practice

Qs. Create a H2 heading element with text - "Hello JavaScript". Append "from Apna College students" to this text using JS.

Qs. Create 3 divs with common class name - "box". Access them & add some unique text to each of them.

# DOM Manipulation

**Attributes**

- **getAttribute( attr ) *//*to get the attribute value**

- **setAttribute( attr, value ) *//*to set the attribute value**

**Style**

- **node.style**

Append is add new
element to existing
one in html
like append.child(div)
add new val or element
to div

# DOM Manipulation

**Insert Elements**     let el = document.createElement("div")

- **node.append( el ) //adds at the end of node (inside)**

- **node.prepend( el ) //adds at the start of node (inside)**

- **node.before( el ) //adds before the node (outside)**

- **node.after( el ) //adds after the node (outside)**

**Delete Element**

- **node.remove( ) //removes the node**

# Let's Practice

Qs. Create a new button element. Give it a text "click me", background color of red & text color of white.

    Insert the button as the first element inside the body tag.

Qs. Create a &lt;p&gt; tag in html, give it a class & some styling.

    Now create a new class in CSS and try to append this class to the &lt;p&gt; element.

    Did you notice, how you overwrite the class name when you add a new one?
    Solve this problem using classList.