

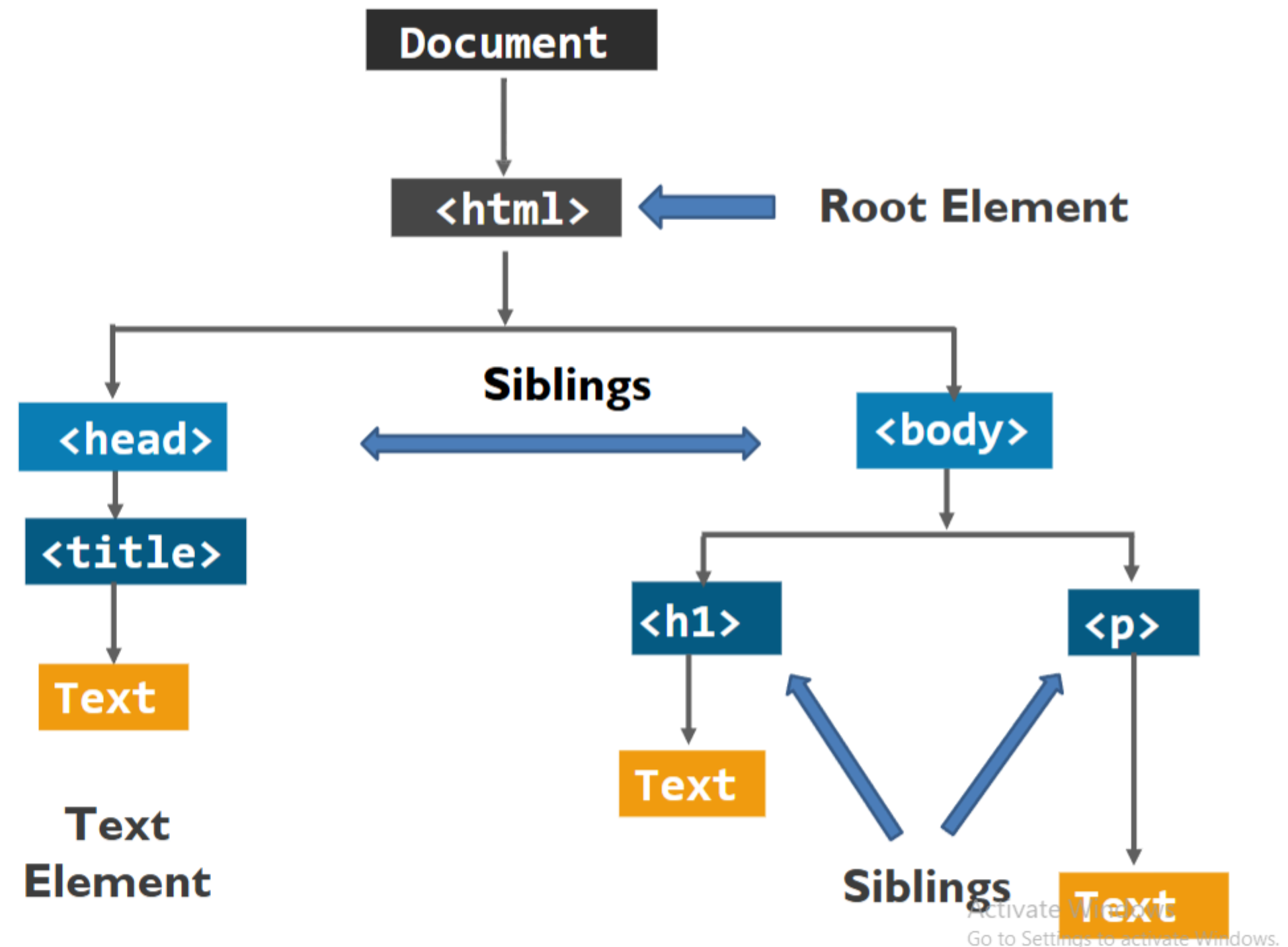


# Document Object Model

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# Document Object Model

- Document Object Model (DOM) defines the logical structure of a document.
- When a page is loaded, the web browser takes the HTML document and creates a tree-like structure with the help of HTML elements. This tree-like structure is known as **DOM**.
- Any element found on an HTML document can be manipulated using the **DOM**.



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# HTML DOM

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- It's a standard Object model and also a programming model for HTML.
- Here, all the HTML elements act as an object.
- **Document** object is the parent element of all the child elements.
- `<html>...</html>` tag is **root** of this Object model.
- Rest elements are **child nodes** of the root.



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# Selecting Elements

- Methods in DOM used to select the elements based on their class, id, tag, etc. are as follows:

Method	Description
<b>getElementById()</b>	Selects an element by id
<b>getElementsByName()</b>	Selects all the elements having same name that is given
<b>getElementsByTagName()</b>	Selects an element by tag name
<b>getElementsByClassName()</b>	Selects an element by class name
<b>querySelector()</b>	Selects an element by CSS Selectors

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# Example - I

## Code:

```
<body>
  <h3 id="head">Heading 3</h3>
  <input name="Changer">
  <button onclick="Change()">click here</button>
  <script>
    var Change={()=>{
      document.getElementById('head').style.color="orange"
      element=document.getElementsByName('Changer')[0];
      element.setAttribute("type", "radio");
    }
  </script>
</body>
```

Selects first element whose name="changer"

Selects elements by id

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# Example – I Output

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**Heading 3**

click here

User before clicking click here button

**Heading 3**



click here

User after clicking click here button

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## Example - 2

### Code:

```
<body>
  <h3>Heading 3</h3>
  <input class="Changer">
  <button class="btn-blue" onclick="Change()">click here</button>
  <script>
    var Change={()=>{
      document.getElementsByTagName('h3')[0].style.color="orange"
      element=document.getElementsByClassName('Changer')[0];
      element.setAttribute("type", "radio");
      element=document.querySelector('.btn-blue')
      element.style.backgroundColor="blue"
    }}
  </script>
</body>
```

Gets the first h3 tag

Gets the first class whose  
name="Changer"

Gets the first  
element in the  
document whose  
class="btn-blue"

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# Example – 2 Output

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## Heading 3

User before clicking click here button

## Heading 3

☐ 

User after clicking click here button

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