

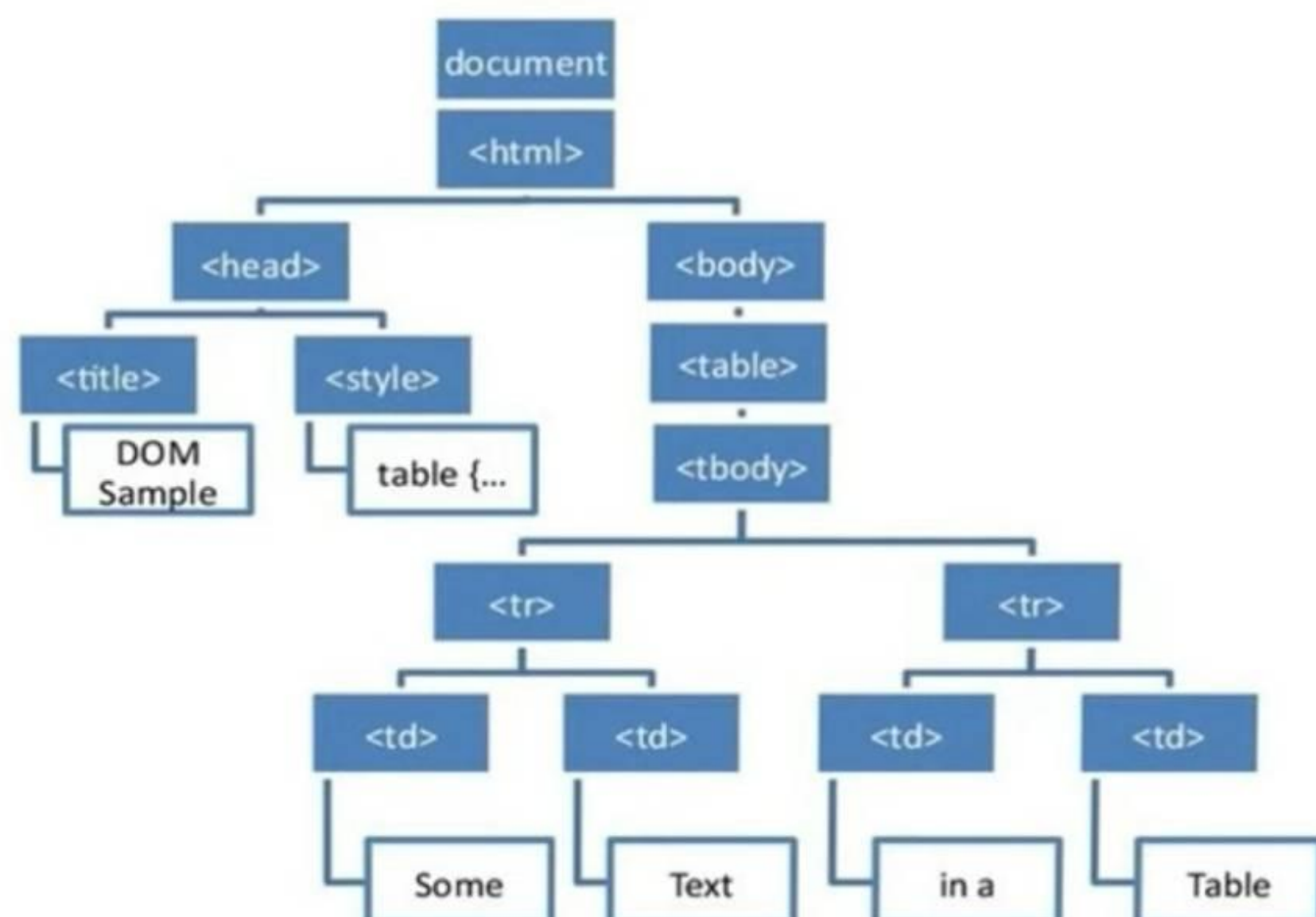
DOM

- The Document Object Model (DOM) is an application programming interface (API) for manipulating HTML and XML documents. (add, remove, and modify parts of the document/HTML)

- When a web page is loaded, the browser creates a Document Object Model of the page.
- Note: In this DOM tree, the document is the root node or object.

DOM Tree

```
<!DOCTYPE html>
<html>
  <head>
    <title>DOM Sample</title>
    <style type="text/css">
      table {
        border: 1px solid black;
      }
    </style>
  </head>
  <body>
    <table>
      <tbody>
        <tr>
          <td>Some</td>
          <td>Text</td>
        </tr>
        <tr>
          <td>in a</td>
          <td>Table</td>
        </tr>
      </tbody>
    </table>
  </body>
</html>
```



- With the object model, JavaScript gets all the power it needs to create dynamic HTML:
- JavaScript can change all the HTML elements in the page
- JavaScript can change all the HTML attributes in the page
- JavaScript can change all the CSS styles in the page
- JavaScript can remove existing HTML elements and attributes
- JavaScript can add new HTML elements and attributes
- JavaScript can react to all existing HTML events in the page
- JavaScript can create new HTML events in the page

- Note: In the DOM, all HTML elements are defined as objects. so it will have both property and method

I

- The document object represents your web page.
- If you want to access any element in an HTML page, you always start with accessing the document object.