

WHAT IS DOM?



codewithgauri

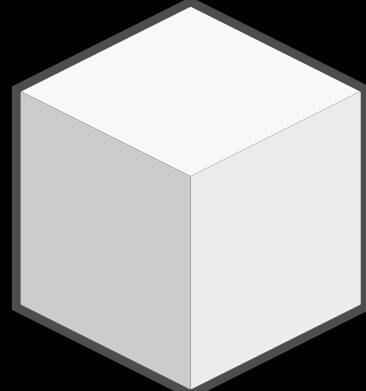
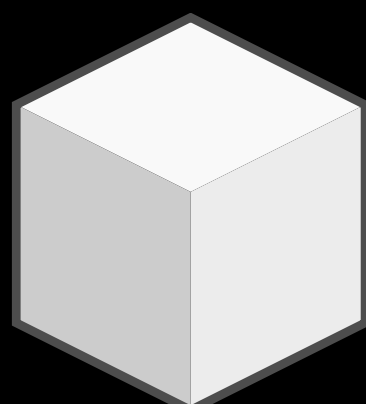
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DOM stands for Document Object Model. In the world of web, all HTML webpages are referred to as documents.

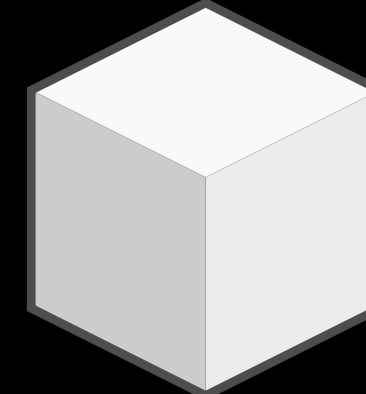
When a web page is loaded, the browser creates a **Document Object Model** of the page.

The **Document Object Model** represents each of these web pages in a tree-like structure to make it easier to access and manage the elements.

Root node



child node

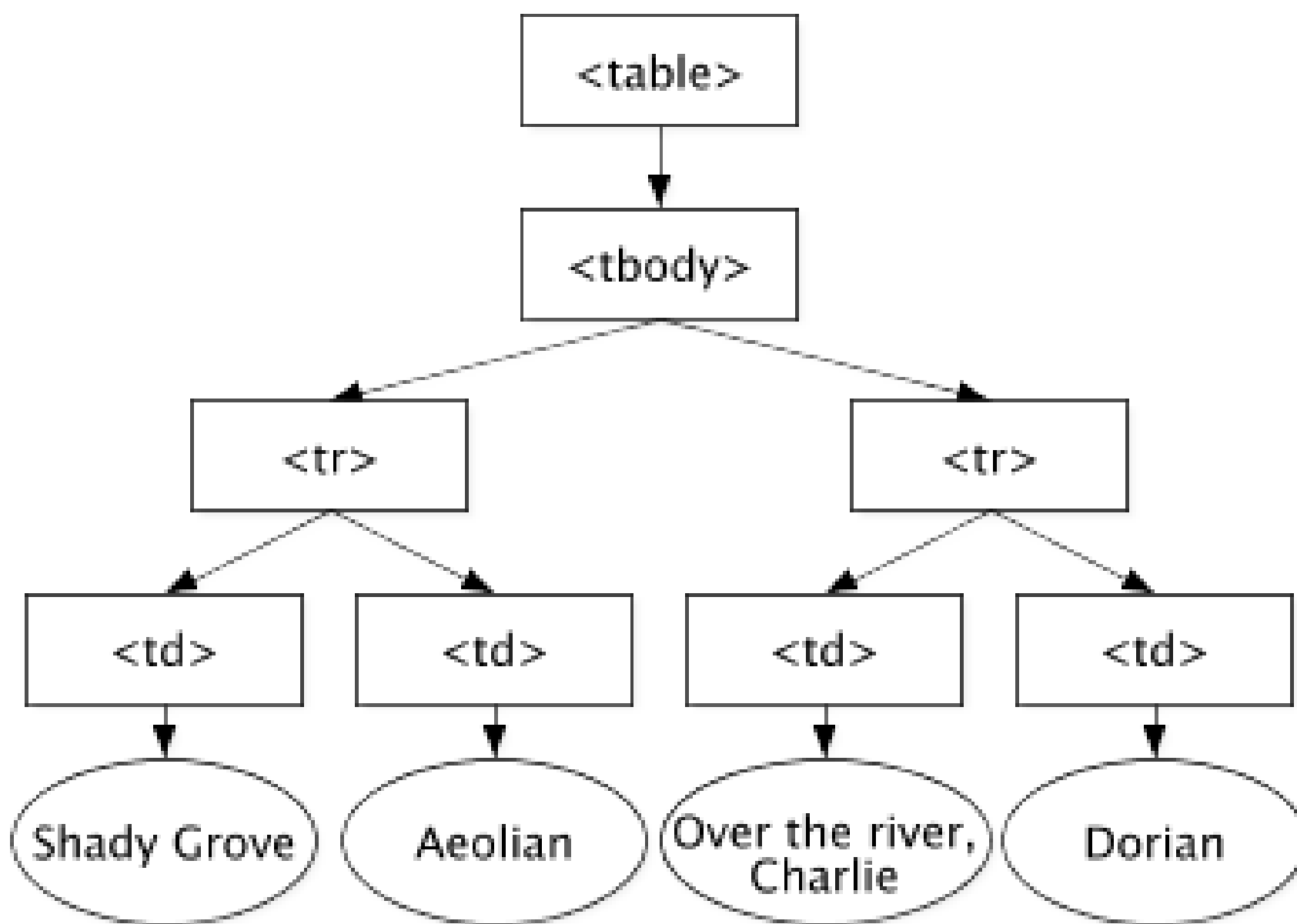


Leaf node

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```
<table>
  <tbody>
    <tr>
      <td>Shady Grove</td>
      <td>Aeolian</td>
    </tr>
    <tr>
      <td>Over the River, Charlie</td>
      <td>Dorian</td>
    </tr>
  </tbody>
</table>
```

The Document Object Model of this code can be created like this:



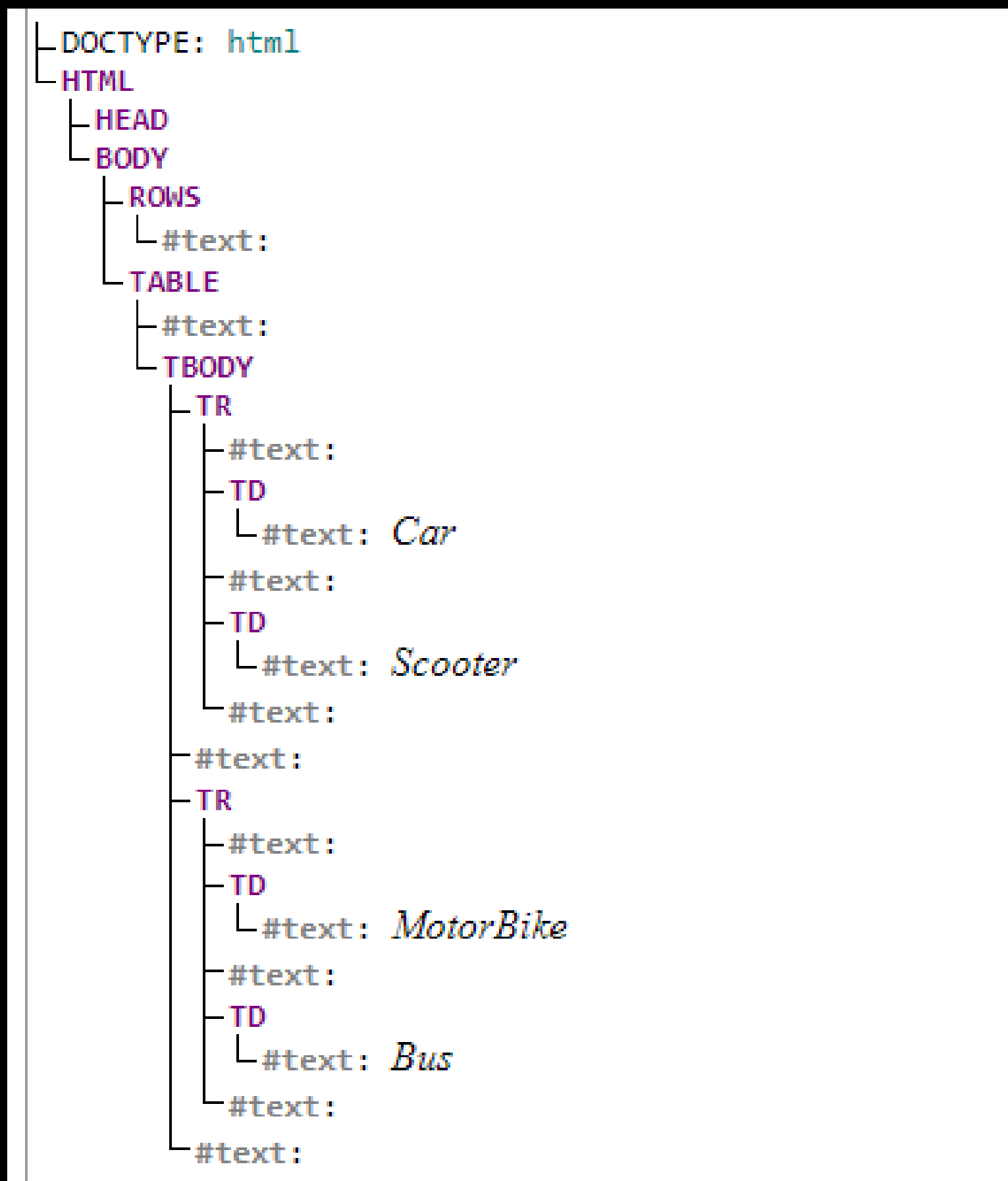
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With the object model, JavaScript gets all the power it needs to create dynamic HTML: ⚡

- 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

DOM defines:

- The HTML elements as objects
- The properties of all HTML elements
- The methods to access all HTML elements
- The events for all HTML elements



List of common APIs in web and XML page scripting using the DOM.

- `document.querySelector(selector)`
- `document.querySelectorAll(name)`
- `document.createElement(name)`
- `parentNode.appendChild(node)`
- `element.innerHTML`
- `element.style.left`
- `element.setAttribute()`
- `element.getAttribute()`
- `element.addEventListener()`
- `window.content`
- `GlobalEventHandlers/onload`
- `window.scrollTo()`

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