**DOM**

**Document Object Model**

The **Document Object Model** (**DOM**) is the data representation of the objects that comprise the structure and content of a document on the web. The Document Object Model (DOM) is a programming interface for HTML and XML documents. It represents the page so that programs can change the document structure, style, and content.

The DOM is represented using a tree because the time complexity of searching in a tree is better than any other data structure. The DOM represents the document as nodes and objects. The Document Object Model (DOM) represents that same document so it can be manipulated. The DOM is an object-oriented representation of the web page, which can be modified with a scripting language such as JavaScript.

The DOM represents a document with a logical tree. Each branch of the tree ends in a node, and each node contains objects. DOM methods allow programmatic access to the tree. With them, you can change the document's structure, style, or content. A document containing HTML is described using the [Document](https://developer.mozilla.org/en-US/docs/Web/API/Document) interface, which is extended by the HTML specification to include various HTML-specific features. In particular, the [Element](https://developer.mozilla.org/en-US/docs/Web/API/Element) interface is enhanced to become [HTMLElement](https://developer.mozilla.org/en-US/docs/Web/API/HTMLElement) and various subclasses, each representing one of (or a family of closely related) elements