# DOM

* The Document Object Model (DOM) is a programming interface for HTML and XML documents.
* The DOM represents the document as nodes and objects.
* A Web page is a document. This document can be either displayed in the browser window or as the HTML source
* 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 core [DOM](https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model) defines the objects that fundamentally describe a document and the objects within it.
* The DOM is not a programming language, but without it, the JavaScript language wouldn't have any model or notion of web pages, HTML documents, XML documents, and their component parts.
* Every element in a document—the document as a whole, the head, tables within the document, table headers, text within the table cells—is part of the document object model for that document, so they can all be accessed and manipulated using the DOM and a scripting language like JavaScript.
* The page content is stored in the DOM and may be accessed and manipulated via JavaScript, so that we may write this approximate equation:

API = DOM + JavaScript

* The DOM was designed to be independent of any particular programming language, making the structural representation of the document available from a single, consistent API.