JavaScript Execution Environment

The JavaScript Window object represents the window in which the browser displays documents

The Window object provides the largest enclosing referencing environment for scripts - Its properties are visible to all scripts in the document

Implicitly defined Window properties:

document - a reference to the Document object that the window displays

frames - an array of references to the frames of the document

Every Document object has:

forms - an array of references to the forms of the document

Each Form object has an elements array, which has references to the form's elements

1. Core JS (ECMAScript)

allows creation of apps that have multiple working extensions that all interact with each other without ever actually knowing about one another.

1. Browser Object Model (BOM)

a **browser**-specific convention referring to all the **objects** exposed by the web **browser**

1. Data Object Model (DOM)

an application programming interface (API) for valid HTML and well-formed XML documents. It defines the logical structure of documents and the way a document is accessed and manipulated.

JavaScript Runtime Environment

compiles the javascript code to native machine code instead of interpreting bytecode which gives a major performance boost to javascript (which is traditionally very slow compared to other high level languages).