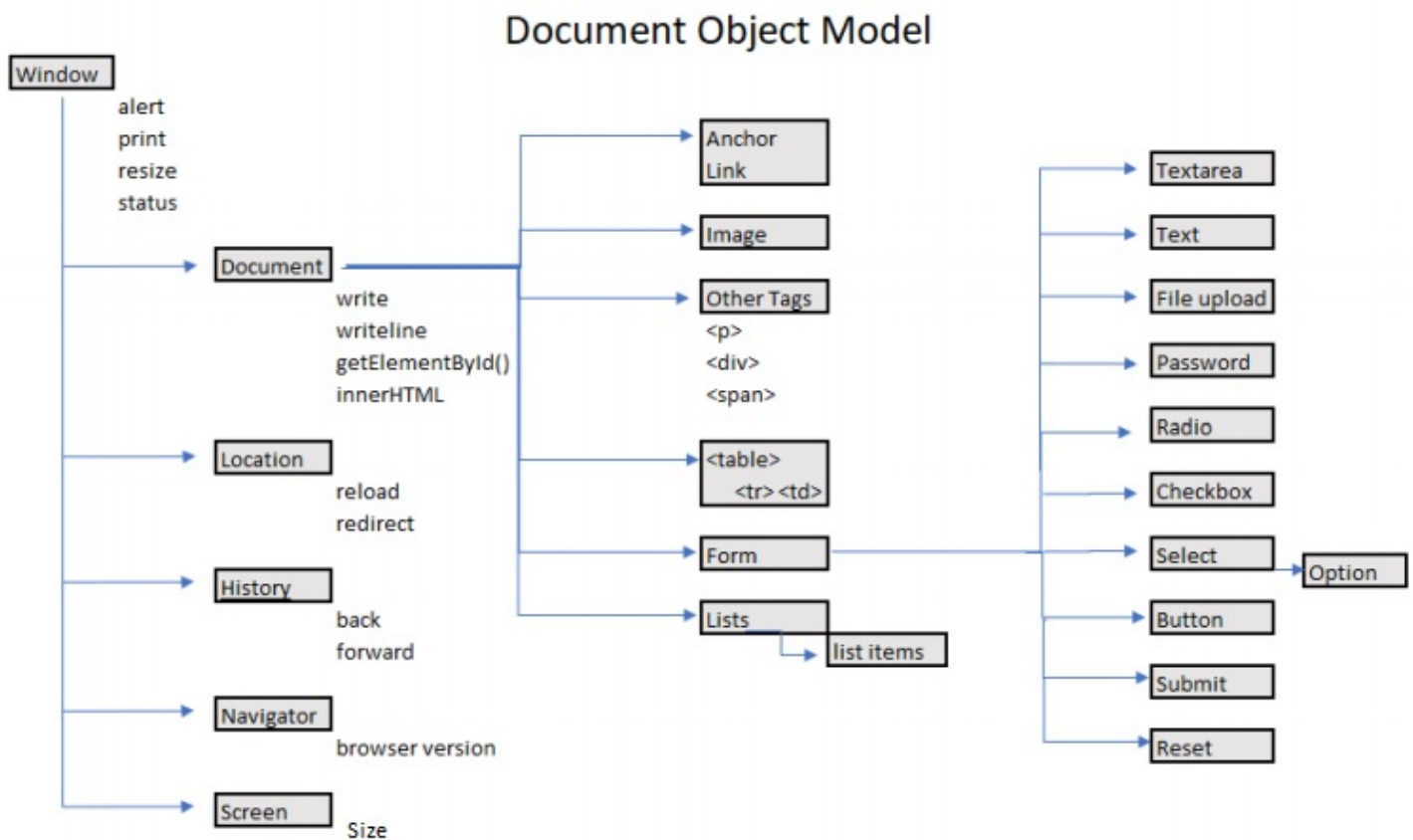


The Document Object Model

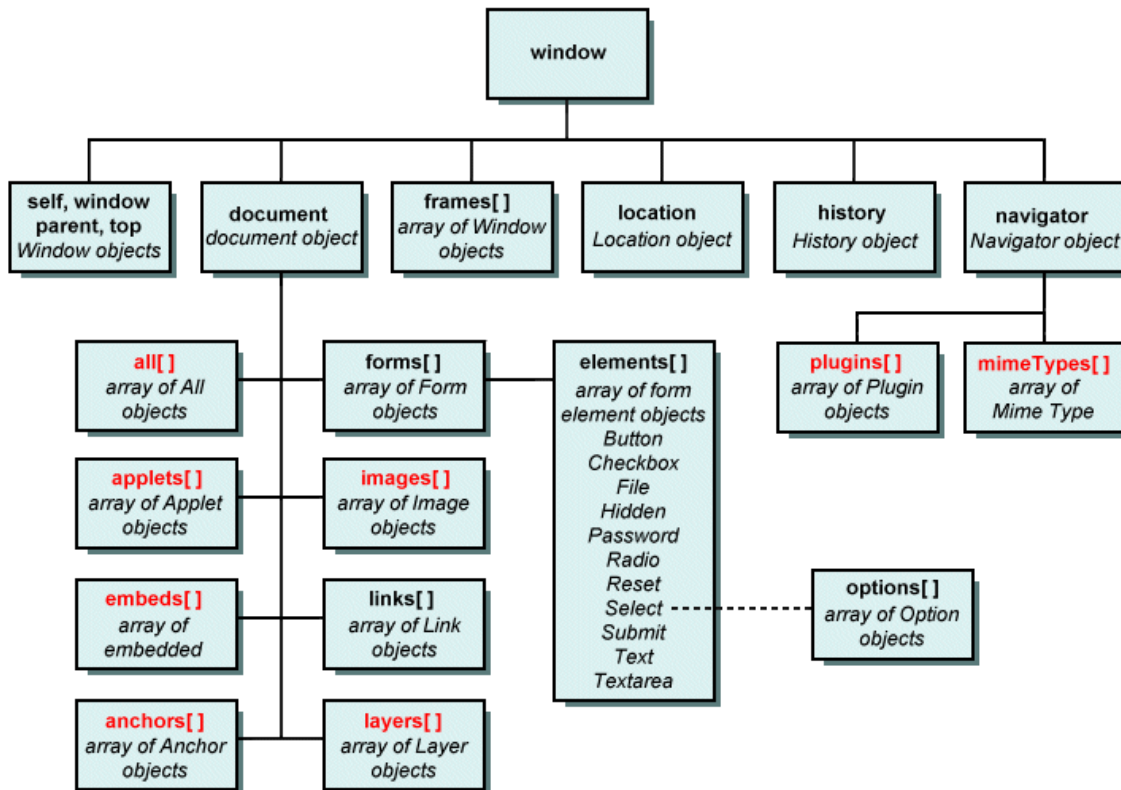
The Document Object Model (**DOM**) is a description of how an HTML (or XML) document is represented in a *tree-like structure*. The tree represents the various types of content in a document - primarily types of content (nodes) representing elements or tags (such as `<body>` and `<p>`).

Get to know the Document Object Model



This model (the DOM of HTML, XHTML, and XML documents on the Internet) gives the JavaScript/ECMAScript language a **mapping structure**. HTML documents have a **hierarchical structure** that is represented in the DOM as a tree structure.

Below is another depiction of the DOM (Document Object Model) The Document Object Model is both platform-neutral and language-neutral.

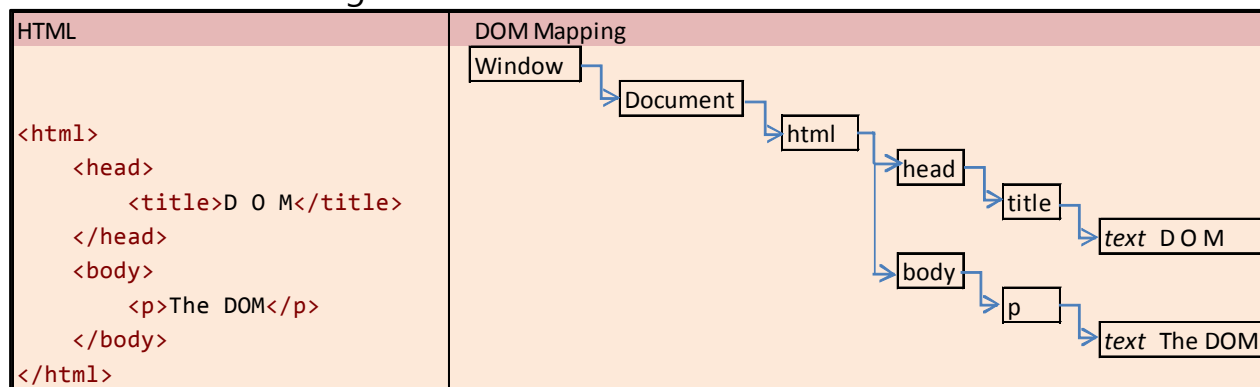


The Document Object Model (DOM) is actually an application programming interface (API) for manipulating HTML documents...

It represents a document as a tree of nodes.

It allows you to effectively add, remove, and modify parts of the document.

Consider the following HTML document:



The DOM Mapping represents parent and child nodes of the HTML document.

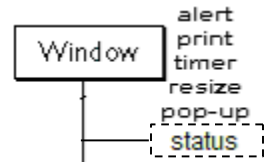
o **Mapping the DOM**

The concept of "." *Dot Syntax* is used to combine objects (or element) with names, methods, and properties.

For example:

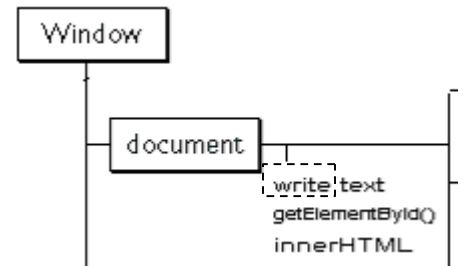
below is the Window object with

```
window.status = "Nucamp HTML CSS and JS.;"
```



next is an object with a method:

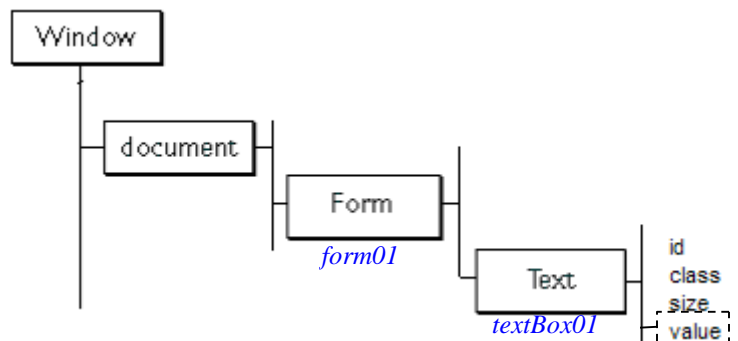
```
window.document.write("Hello Nucamp");
```



And finally to map an element in the DOM:

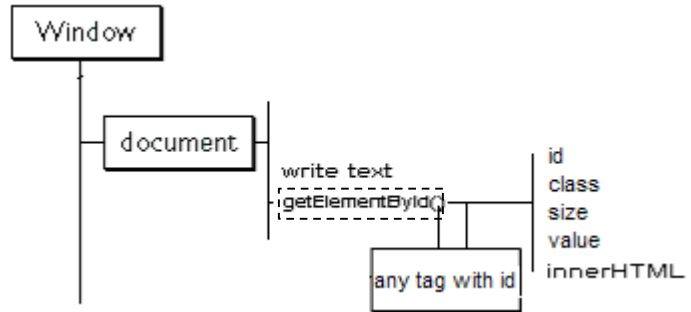
```
X = window.document.formName.elementName.value  
or
```

```
window.document.form01.textBox01.value = "Nucamp"
```



*** A Common Approach for mapping the DOM ***

```
x = document.getElementById('elementID').method/property
```



querySelector vs getElementById

querySelector is a little slower but easy to use...

```
x = document.querySelector ('.elementID').method/property
```

Sometimes you will also see Array Notation

```
x = document.forms[0].elements[0].text //Array Notation
```