**JS HTML DOM**

**DOM** is an abbreviation to **Document Objects Model**, It’s a standard object W3C (World Wide Web Consortium) model for accessing document.

There are 3 types of DOM:

1. **Core DOM:** standard model for accessing ***all***document types (Html & Xml).
2. **XML DOM:** standard model for accessing ***XML*** documents.
3. **HTML DOM:** standard model for accessing ***HTML*** documents.

We will focus on HTML DOM.

HTML DOM is a standard **object** model and **programming interface** for HTML and XML, it’s an abbreviation to Document Objects Model, where:

* **Document:** is HTML web Page and it’s the parent of all existing objects (elements) into it.
* **Objects:** are HTML elements.
* **Programming interface:** Properties & methods of Object (Html element).
  + **Property** is a **‘value’** that you can get or set (like changing the content of an HTML element).
  + **Method** is an ‘**action’** you can do (like add or deleting an HTML element).

HTML DOM enables programmers to access and fully control on Dom HTML tree by using Scripting languages like; JS and other programming languages.

With DOM we can:

1. **Change** Html elements, attributes, and presentation (CSS styles).
2. **Add** new Html elements and attributes.
3. **Remove** Html elements and attributes.
4. **Create** and React with Html events.

DOM codes consist of 3 parts: **document.method = property**

**First part: document**

You always start with document object (parent of objects) to access any inside object (child object).

**Second part: methods**

Methods are actions used to **find**, **add**, and **delete** objects as well as adding events. These methods are:

1. [Getting objects](Getting%20objects.docx)
2. [Getting Object's child](Getting%20Object's%20child.docx)
3. [Methods of Adding and Deleting Elements](Methods%20of%20Adding%20and%20Deleting%20Elements.docx)

**Third part: properties**

1. [Getting & Setting HTML Objects](Getting%20&%20Setting%20HTML%20Objects.docx)
2. [Object’s Attributes & Content](Object’s%20Attributes%20&%20Content.docx)

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| --- | --- |
| Methods of Adding Events Handlers | |
| **Methods** | **Description** |
| **document.getElementById(id).onclick = function(){code}** | Adding event handler code to an onclick event |