CS 80(1806)- Internet Programming Chapter 12 Unit 8

After using Mac OS and Windows OS to look at the DOM on Nike.com web page, I can also access the Dev tools in multiple ways. Depending on the browser, I can *right-click* in the web page to display a dialogue box where I can choose to inspect the website. If the page does not bring up the dialogue box to choose the inspect option, I can use a combination of buttons

*(i.e. Command+Option+1: Mac OS)* to display the DOM[[1]](#footnote-1).

The DOM will allow you to manipulate, structure, and style your web page from the browser it runs, and this provides a convenient way to see your website in actions as you improve its usability. DOM is an API Interface provided by the browser. When a web page is loaded, the browser creates a Document Object Model of the page. With the DOM, JavaScript can access and change all the elements of an HTML document. The Dom is part of the developer tools, and in the developer tools you can access the console which is useful to identify errors in the code. By accessing the DOM, I am able to look at every aspect of the script element, allowing me to dynamically create, modify and remove elements in the page[[2]](#footnote-2).

Another great aspect of accessing the DOM is that you are able to see and utilize object hierarchy. In object hierarchy, the objects “descendants” are properties of the object[[3]](#footnote-3). This hierarchy reflects the structure of the HTML page. You can affect specific aspects of the page when you alter these objects, allowing you to isolate the modification needed to be performed. The more familiar name for this concept is object-oriented programming(OOP) where parent objects pass their methods and properties to child objects through inheritance[[4]](#footnote-4).

1. Deitel, Paul J.

   Internet and world wide web : how to program / Paul Deitel, Harvey Deitel, Abby Deitel, --5th edition

   Chapter 12, pages 396 – 397. [↑](#footnote-ref-1)
2. WS3 <https://www.w3.org/TR/REC-DOM-level-1/introduction.html> What is the Document Object Model? [↑](#footnote-ref-2)
3. CERN- European laboratory for Particle Physics: <https://enacit1.epfl.ch/tutorials/JavaScript/hierarchy.html> Introduction to JavaScript [↑](#footnote-ref-3)
4. Hierarchy- https://www.technipages.com/definition/hierarchy [↑](#footnote-ref-4)