

**Coding Boot Camp** 

Module 04





A web browser, or browser, is a program used to access information on the World Wide Web.

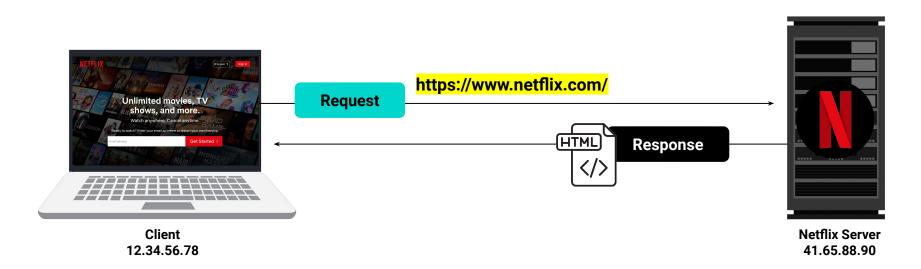






#### **Browsers Access Information on the Web**

Every webpage, image, and video on the web can be accessed via a specific **Uniform Resource Locator (URL)**. Browsers use the URL to retrieve resources from a web server and display them on a user's device.





An API (Application Programming Interface) is a set of methods, properties, events, and URLs that developers use to interact with components of a user's web browser.

### **Application Programming Interface**

APIs can also interact with data sets, hardware or software on a user's computer, and third-party software and services.



AirBNB uses
Google's API for maps



Google Searches for weather uses the Weather API

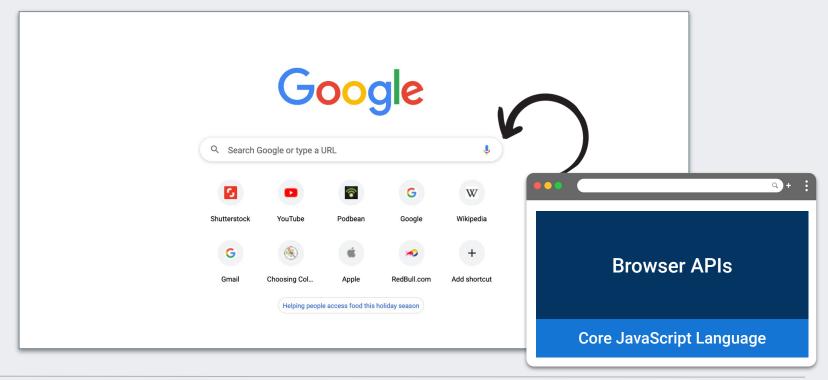


Even <u>iQuery</u> is an API

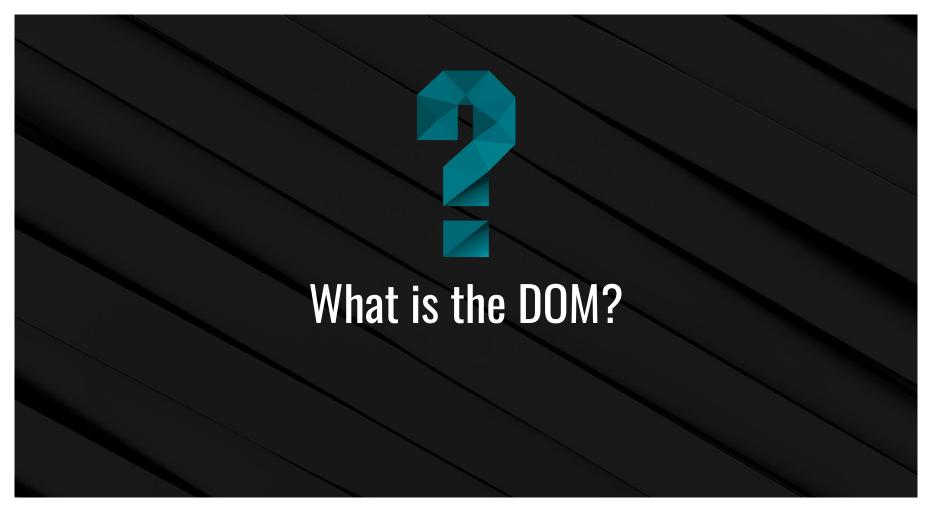


### Web APIs Use JavaScript to Manipulate Webpages

Web APIs are built into the web browser and contain methods that allow us to manipulate a webpage using JavaScript.



We use Web APIs to create elements and add them to the browser or to add and remove styles and attributes—all via JavaScript.



## The Document Object Model

When we open a webpage, the browser creates a tree of objects that represent the opened page. That tree of objects is the DOM, or Document Object Model.

Element

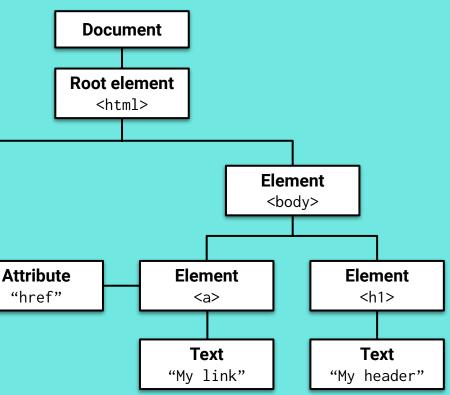
<head>

Element

<title>

Text

"My title"





# Today's Goals

By the end of today's class you should be able to:

- Inspect the Window object.
- Traverse the DOM using various Web APIs.
- Query the DOM for elements by their selector.
- Add styles to specific elements using setAttribute().
- Create and append elements to the document.
- Implement timers using setInterval() and clearInterval().



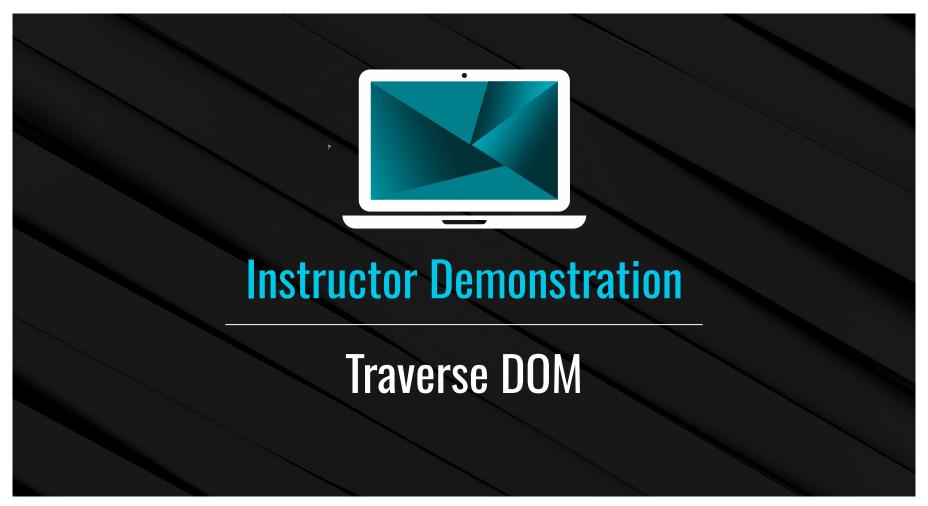




# Your turn - Window Object

Follow the instructions in the Readme.md file of folder: 02-Stu Window-Object

#### Suggested Time:





## Your turn - Traverse DOM

Follow the instructions in the Readme.md file of folder: 04-Stu Traverse-DOM

#### Suggested Time:





# **Your turn - Setting Attributes**

Follow the instructions in the Readme.md file of folder: 06-Stu Setting-Attributes

#### Suggested Time:







# Your turn - Create Append

Follow the instructions in the Readme.md file of folder: 08-Stu Create-Append

#### Suggested Time:





## Your turn - Timers & Intervals

Follow the instructions in the Readme.md file of folder: 10-Stu Timers-Intervals

Suggested Time:



