



# Web APIs

Coding Boot Camp

Module 04





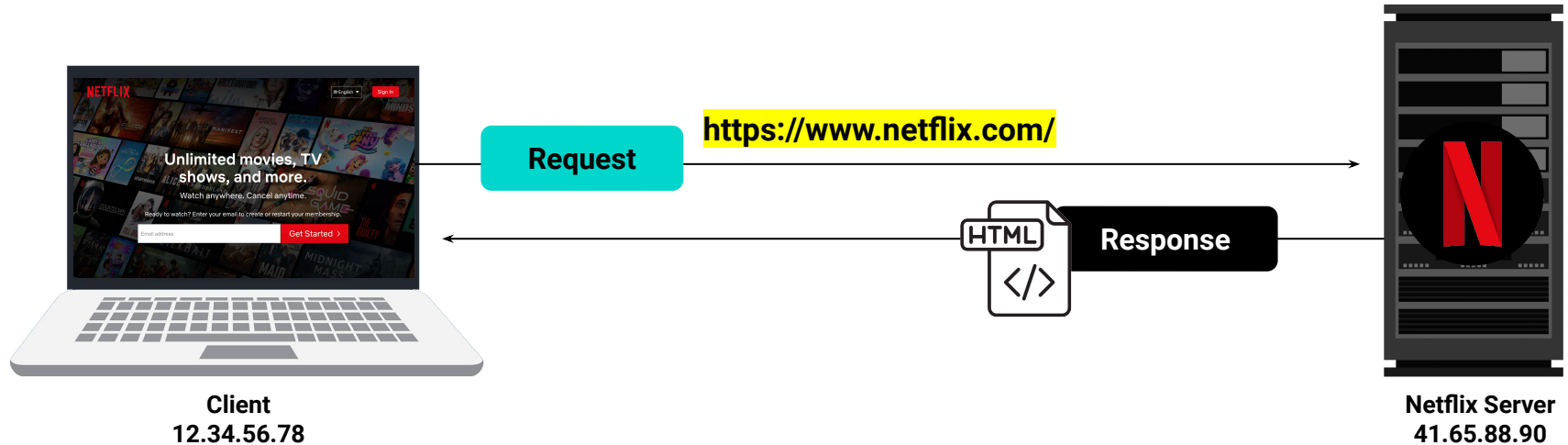
**What is the web browser?**

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



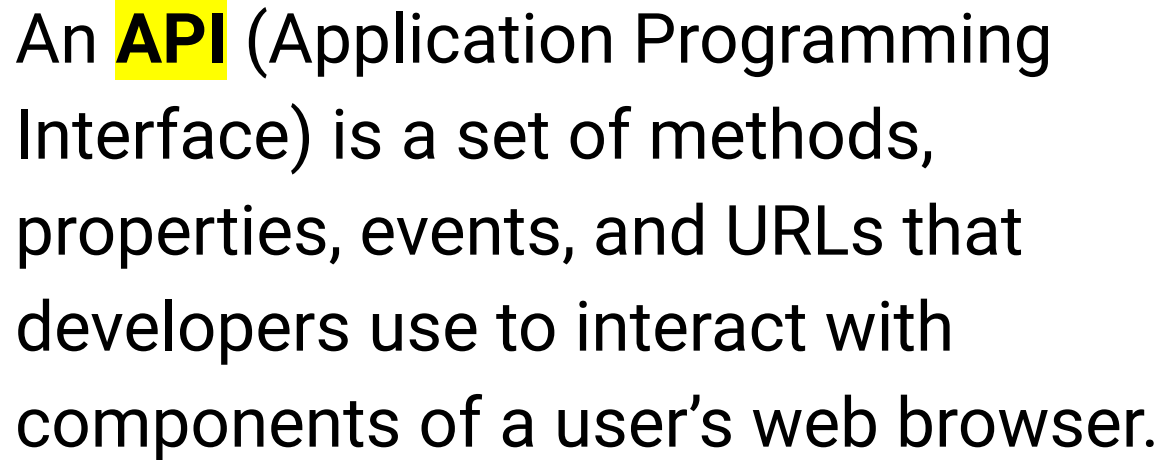
# Browsers Access Information on the Web

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.





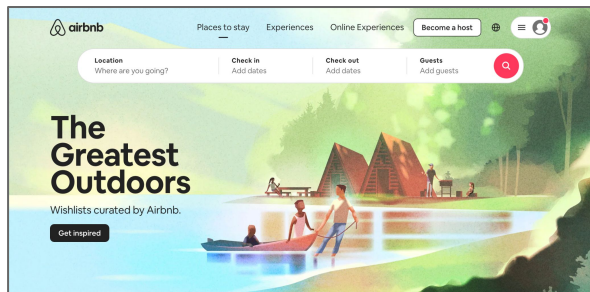
**What is an API?**



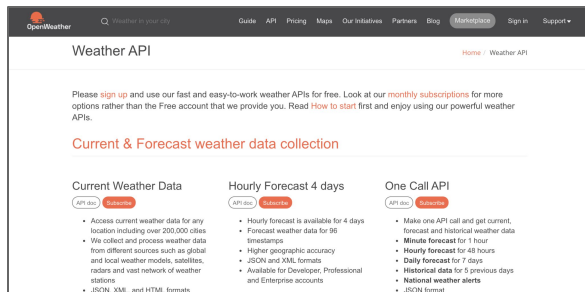
An **API** (Application Programming Interface) is a set of methods, properties, events, and URLs that developers use to interact with components of a user's web browser.

# Application Programming Interface

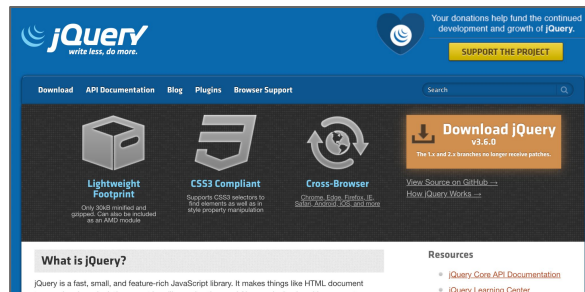
APIs can also interact with data sets, hardware or software on a user's computer, and third-party software and services.



[AirBNB](#) uses  
Google's API for maps



Google Searches for weather  
uses the [Weather API](#)



Even [jQuery](#) is an API

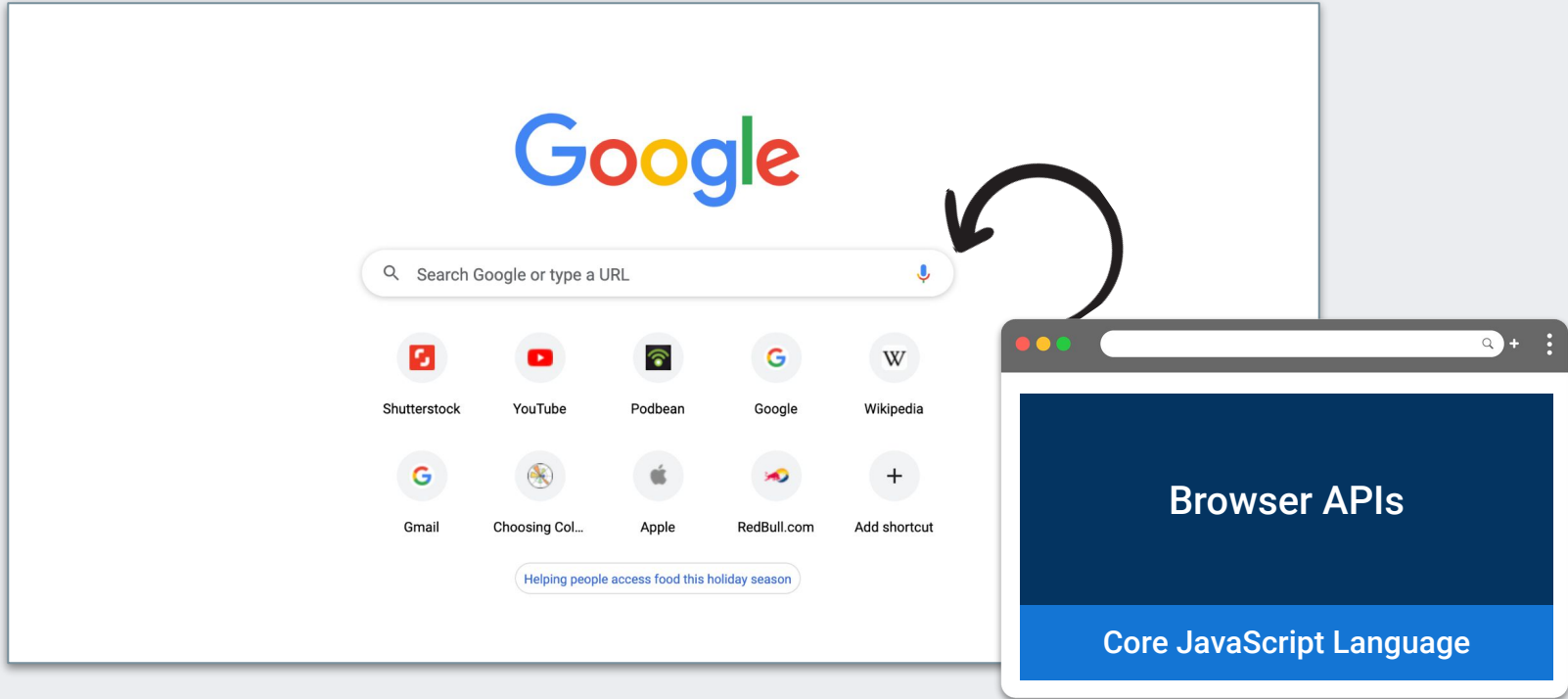


**What is a Web API?**



# 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.





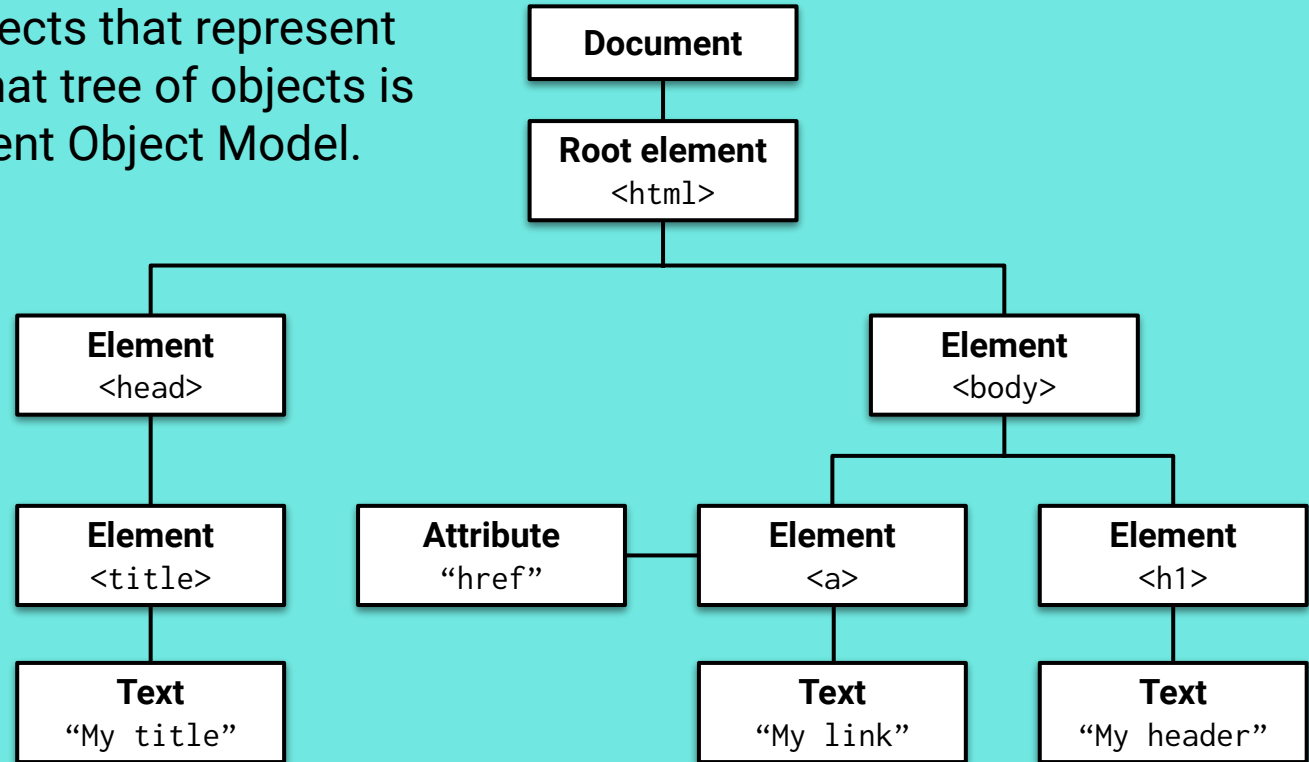
**We use Web APIs to create elements  
and add them to the browser or to  
add and remove styles and  
attributes—all via JavaScript.**



**What is the DOM?**

# 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.





**Using the DOM, we can  
manipulate the HTML elements  
on the page via JavaScript.**



# Instructor Demonstration

---

## Mini Project