

**Coding Boot Camp** 

Module 04





### What is the difference?

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#### = vs == vs ===

= Assigns a value to a variable.

var itemsInBag = 3;

== Compares values regardless of type.

if ("4" == 4) {
 // this code will run!!
}

If ("1" == true) {
 // this code will run!!

=== Compares value AND type

```
if ("4" === 4) {
   // this code will NOT
run!!
}

If ("1" === "1") {
   // this code will run!!
}
```

#### == can be dangerous. Use === if possible

Imagine a block of code like this which enables a user to access an account:

```
if (isAuthorized == true) {
  // display account here
}
```

But what if the back end engineer configures the API like this?

```
If (usersPasswordMatchesHashInDB) {
    // allow user access
    isAuthorized = true;
} else {
    // send error code
    isAuthorized = 1;
}
```

OH. DEAR. GOD. NO!!!!

# **JavaScript Fundamentals**

What are primitives?

## **JavaScript Fundamentals**

# What are primitives?

- Strings
- Booleans
- Numbers
- Null
- Undefined

```
var StationContextInitialConfigs = {
    station:
    setStation: null,
    moniker: '',
    setMoniker: null,
    stationUrl: '',
    setStationUrl: null,
```

```
var StationContextInitialConfigs = {
    station: ''
    setStation: null,
    moniker: '',
    setMoniker: null,
    stationUrl: '',
    setStationUrl: null,
```

# Object

# What is this?

```
["hip", "hip"];
```

# What is this?

```
["hip", "hip"];
```

Hip Hip Array!!



**Bdeets** 7:56 PM

Image from iOS ▼



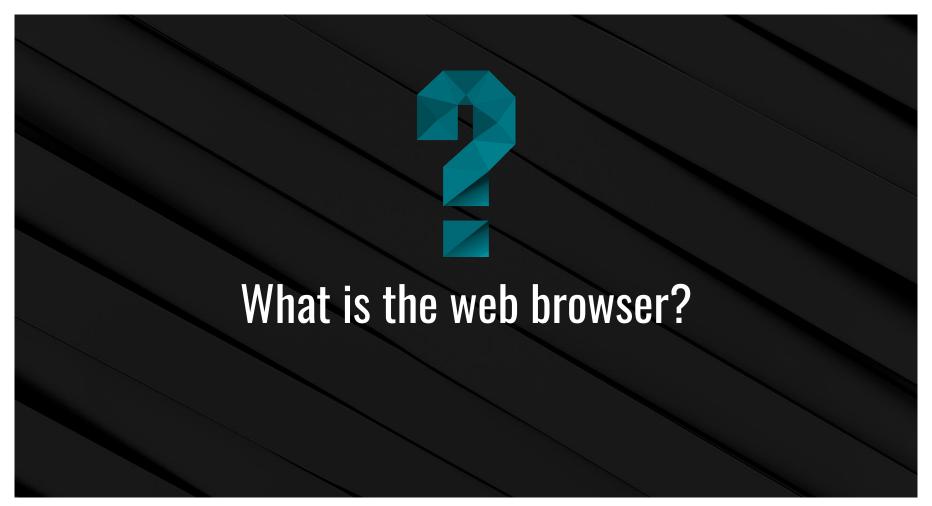








5 replies Last reply today at 4:46 PM



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

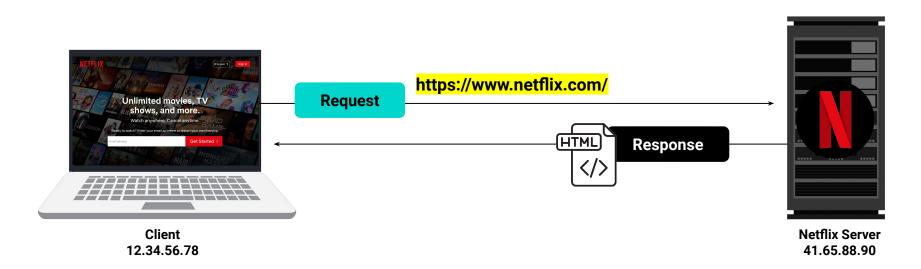






#### **Browsers Access Information on the Web**

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.





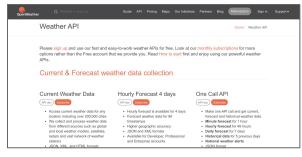
An API (Application Programming Interface) is a set of methods, properties, events, and URLs that developers use to interact with components of a user's web browser.

### **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

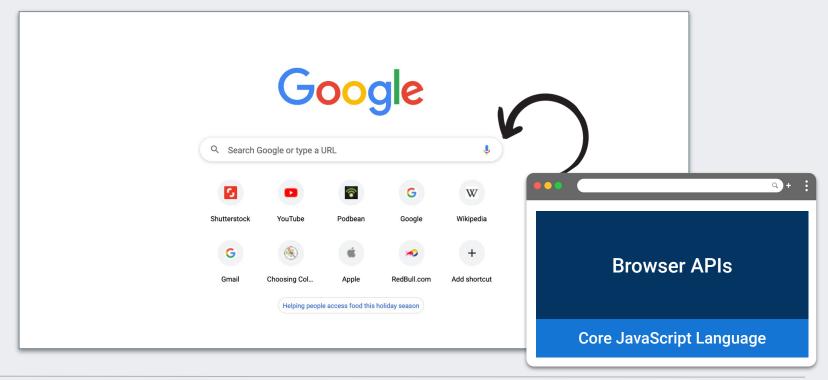


Even <u>jQuery</u> is an API

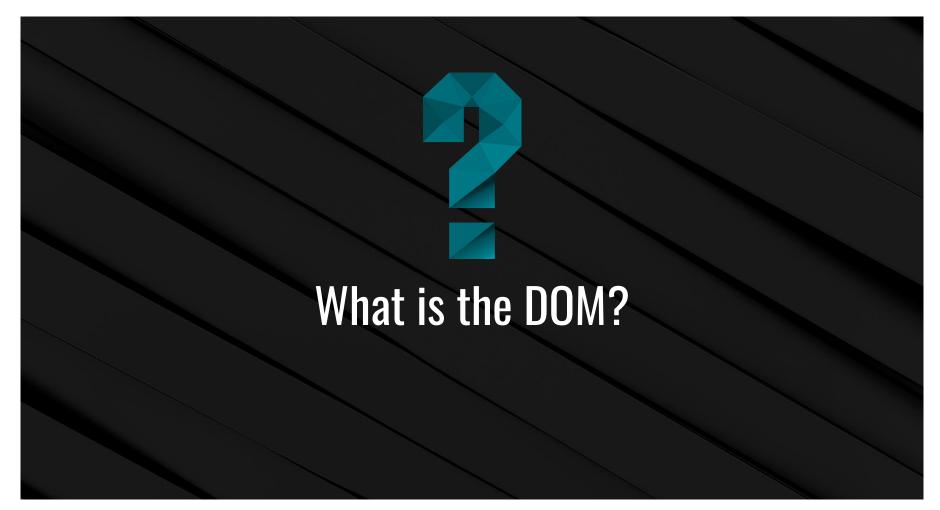


### Web APIs Use JavaScript to Manipulate Webpages

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"

