TavaScript 101 THE PROGRAMMING Language OF THE WEB

kara carrell | code platoon

What is JavaScript?

Quick Review

Javascript code Looks Like:

```
var someVariable = function(a, b) {
    return a * 3 + b - 47;
};
```



IS:

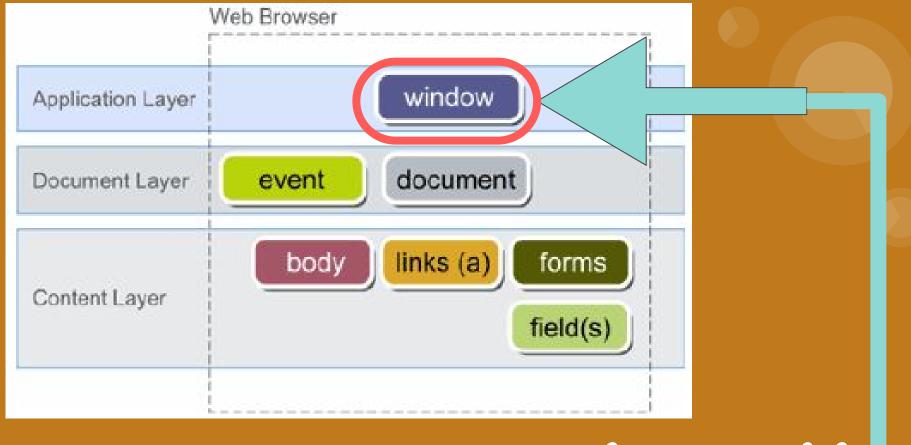
- An event-driven,
 object-oriented
 Scripting language
 that interacts with the
 BOM and the DOM
- Asynchronous
- Powerful

ISN'T:

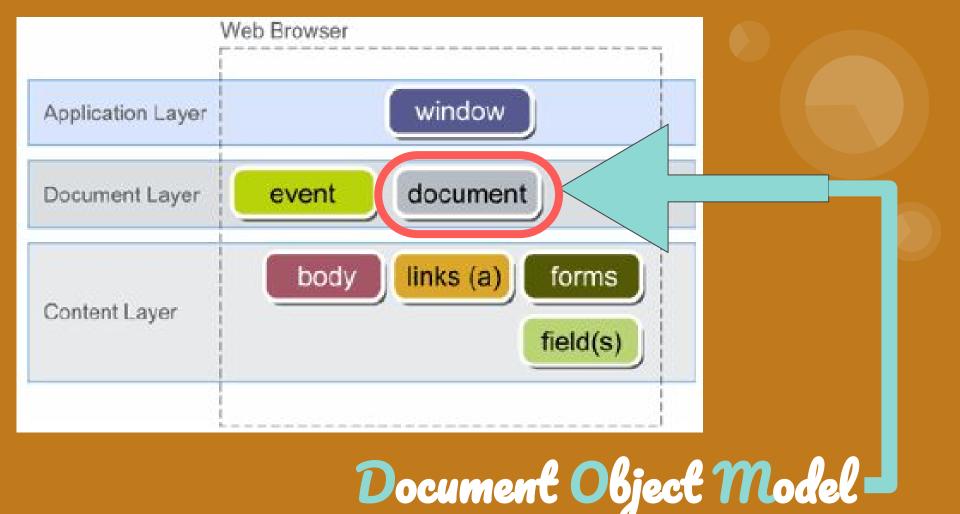
- Java
- A Toy Language
- Going Anywhere.

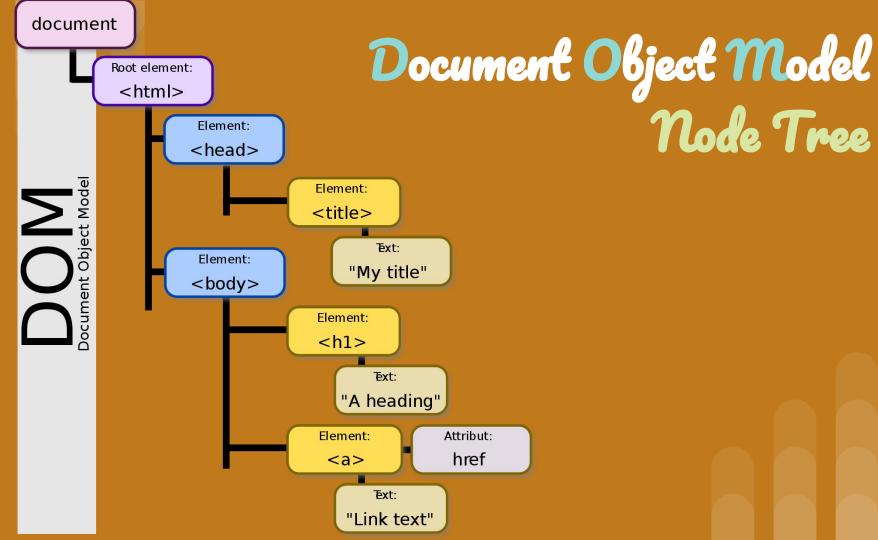
Languages

- Programming Language RUBY
- SCRIPTING Language Javascript,
 Bash
- Query Language SQL
- Markup Language HTML
- STYLE Language CSS



Browser Object Model







Tavascript allows us to:

traverse

Travel through the DOM nobe tree

Manipulate

CHange HTML

React

...TO **events** created by us, or fired off from user actions

Animate

USING COOL EFFECTS!

communicate

USING AJAX AND THE FETCH WEB AP

Persist

USING **Browser** & **Session Storage** APIS



Functions you'll be using:

document.

getElementById(".id")

querySelector("selector")

querySelectorAll("selector")

createElement(element)

appendChild(element)

element.

innerHTML

attribute

style

animate

addEventListener('event', action)

But, How?

SPOILER ALERT: **HTML & CSS REQUIRED!**

Implementation Steps

- 1. **SELECT** HTML
 - ELement(S)
 - a. USING CSS SELECTORS
- Manipulate HTML
 - ELEMENT(S)...
 - a. style
 - B. CONTENT
 - C. DOM Order

1. **SELECT** HTML ELEMENT(S)

2. ADD **EVENT LISTENER**

3. BUILD FUNCTION THAT RUNS WHEN EVENT OCCURS



Events

Actions that happen during the runtime of a document

.oncLick

.onnover

.onscroll

.onfocus

Usage Example:

HTML:

<h1 onClick="doSomething()"> hello!</h1>

JS:

var doSomething = function() {
 alert("I DID A THING!");
 return "thing done." ;



JavaScript + Web APIs = T

Browserstorage, sessionstorage,

Navigator, console, fetch