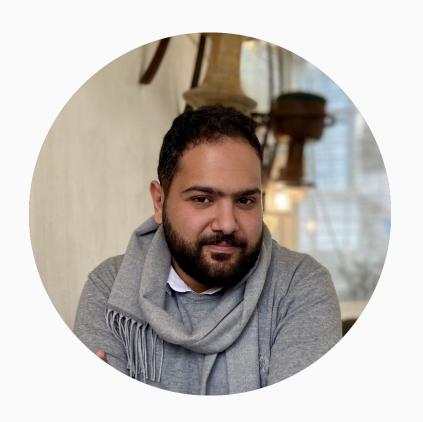
## ReactJs Bootcamp

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## Tools

### **Text Editors**

- Visual Studio Code
  - https://code.visualstudio.com/
- sublimetext
  - https://www.sublimetext.com/
- Atom
  - https://atom.io/

## What is the goal?

# Create Web Application

- HTML
- CSS
- JavaScript
- Image, Video, ...

A web application (or web app) is application software that runs on a web server, unlike computer-based software programs that are run locally on the operating system (OS) of the device. Web applications are accessed by the user through a web browser with an active network connection. These applications are programmed using a client–server modeled structure—the user ("client") is provided services through an off-site server that is hosted by a third-party. Examples of commonly-used web applications include: web-mail, online retail sales, online banking, and online auctions.



#### **How The Internet Works** The Web Server Your Computer When you enter a URL or click a link, a request to view that page is sent to that site's host server, the server processes that request, and sends back the relevent data. Finally, your request has reached it's destination, but this is only half of the story. When the web server hosting the site gets your request, it gathers the information you asked for and sends it all back. Router Their ISP The destination's ISP recieves your request and forwards it to the Every computer is connected to a local correct ip address. If your ocmputer and the server hosting the network. The local network is connected site your trying to access use the same ISP, then this step is skipped. to the rest of the internet by a router. Your ISP IXP Internet Exchange Points are hubs of the Your Internet Service Provider is what connects you to internet were many different connections meet. the internet. The wires and routers that connect you to their servers were your request is resent to it's destination. DNS Now that your request has an ip address as it's destination, your ISP Sends it to the ISP that the destination belongs to. Your isp checks with a DNS to see what the ip address of the requested information is stored at. 1001010

## What is Javascript?

#### What is Javascript?

JavaScript was first known as LiveScript, but Netscape changed its name to JavaScript, possibly because of the excitement being generated by Java. JavaScript made its first appearance in Netscape 2.0 in 1995 with the name LiveScript. The general-purpose core of the language has been embedded in Netscape, Internet Explorer, and other web browsers. The standard of scripting languages like

JS

What is ECMAScript?

JavaScript is ECMAScript.

### **ECMAScript**

The full form of ECMA is European Computer Manufacturer's Association. ECMAScript is a Standard for scripting languages such as JavaScript, JScript, etc. It is a trademark scripting language specification. JavaScript is a language based on ECMAScript

## Hello World!

#### index.html

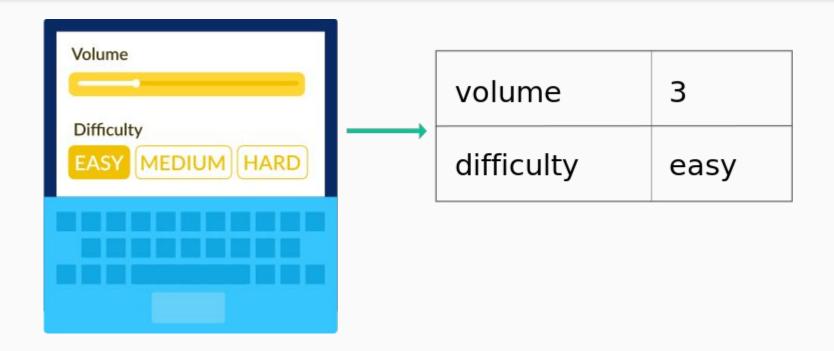
```
• • •
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Hello World</title>
</head>
<body>
  <script src="./index.js"></script>
</body>
</html>
```

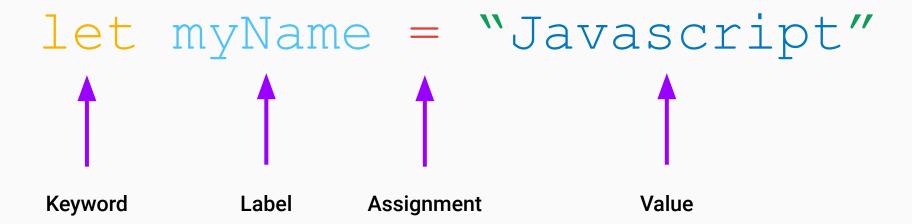
#### index.js

```
alert("hello world")
console.log("hello world")
document.getElementById("target-text").innerHTML = "hello world"
```

variables are like boxes with labels in which different things can be placed and used when needed.







```
var isSummer = false // Do not use

// Can change
let age = 20

// Can not change
const name = 'Abase Bo Azar'
```

## Basic Data Types

Number

- String
- Boolean

## Basic Data Types

. . . const myNumber = 123 // simple number const myFloatNumber = 123.05 // float number const negativeNumber = -123 // negative number // string with single quotation const myText = 'This is a sample text between single quotes' // string with double quotation const myText = "This is a sample text between double quotes"

//----const isDay = true
const isNight = false

## operators

# Arithmetic operators

result is number

Operator	Description
+	Addition
-	Subtraction
*	Multiplication
**	Exponentiation
/	Division
%	Modulus

#### **String Operators**

result is string



```
const firstName = "John";
const lastName = "Doe";
const fullName = text1 + " " + text2;
```

### Logical & Comparison Operators

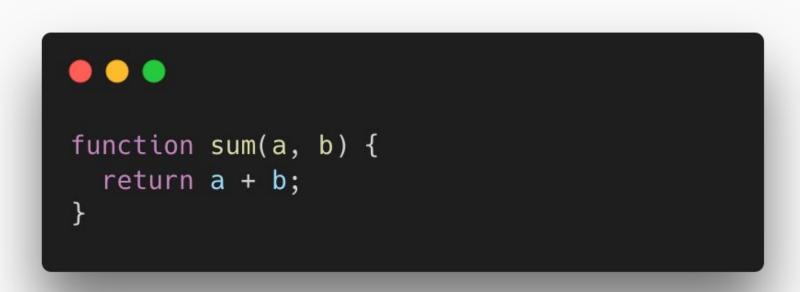
result is boolean

Operator	Description
==	equal to
===	equal value and equal type
!=	not equal
!==	not equal value or not equal type
>	greater than
<	less than
>=	greater than or equal to
<=	less than or equal to
&&	logical and
П	logical or
!	logical not

if / else

```
if (true) {
  console.log("that was true :-)")
} else {
  console.log("that was false :-(")
```

### **Function**



## Challenge!

Create a program that takes the age in years and returns the age in days.

#### **Notes**

- Use 365 days as the length of a year for this challenge.
- Ignore leap years and days between last birthday and now.
- Expect only positive integer inputs.

#### Example

Create a program that takes a number and say is that even.

#### **Notes**

result must be a boolean

#### Example

- 3 → false

Create a function that takes a name and returns a greeting in the form of a string.

#### **Notes**

- The input is always a name (as string).
- Don't forget the exclamation mark!

#### Example

helloName("Tiffany") → "Hello Tiffany!"