Starting soon!

Intro to JavaScript

JFSS CS Club 2022/23
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Recap

CSS Selector

Curly Brackets

Semi-colon

CSS style

Colon

Value for given style
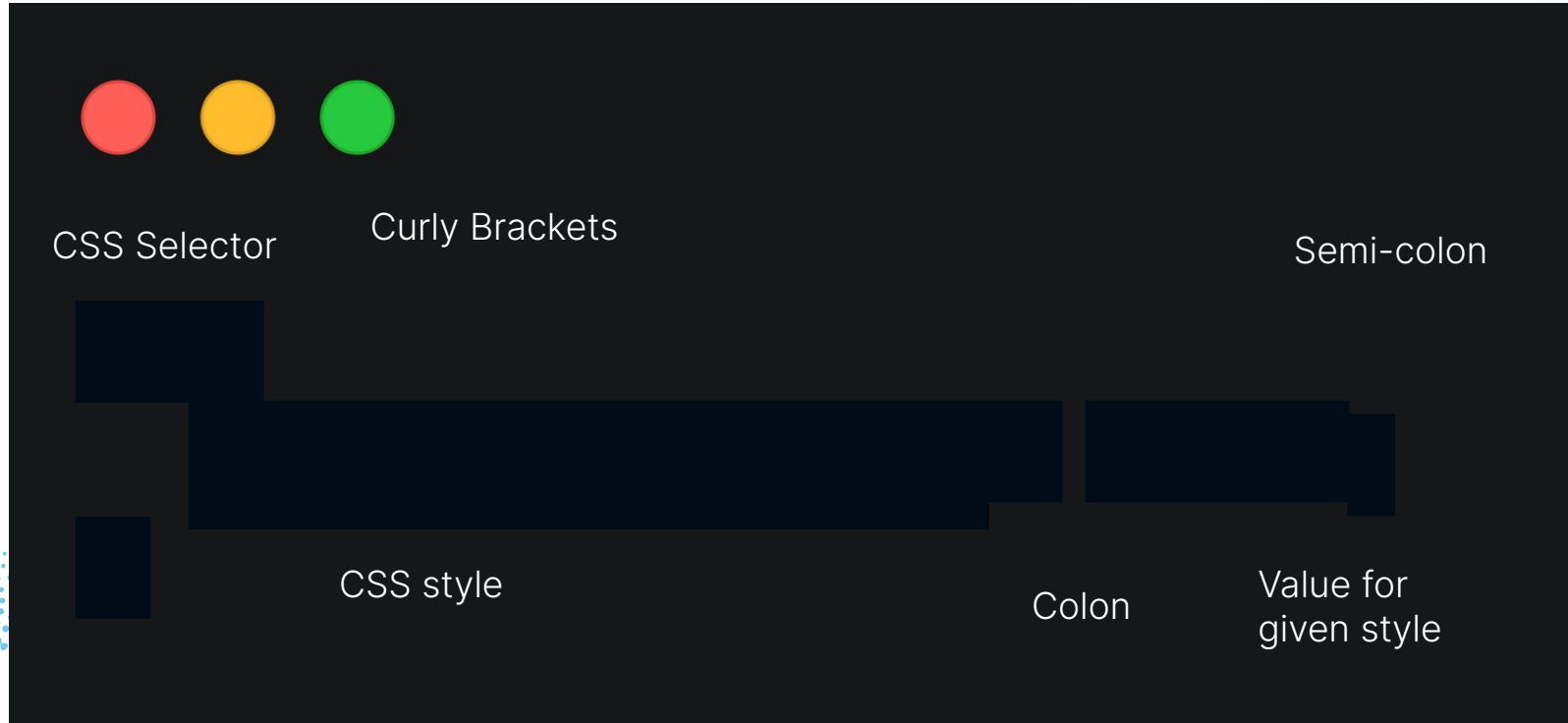
Recap

What is CSS and what is it used for?

Cascading **S**tyles **S**heets. Used to style web pages to give it a more cleaner, readable and user friendly interface.

What are ways to integrate CSS? (Clue: there are 3)

```html
<!--INLINE STYLING-->
<p style="background-color: purple"> This is a paragraph :) </p>

<!--INTERNAL STYLING-->
<h1> ducks </h1>
<style>
  h1{
    color: orange;
  }
</style>

<!--EXTERNAL STYLING-->
<head>
<link rel="stylesheet" href="mystyle.css">
</head>
```

Recap

Give me some Measurement Units examples

Absolute Lengths: px, cm, in
Relative Lengths: %, rem, em, vw, vh

What are CSS Selectors???

Universal (*****), Element, Class (**.**), Id (**#**)

```
<style>
    h1{
        color: orange;
    }
</style>
```

CSS

THE END.

Ask any questions that you have right now!
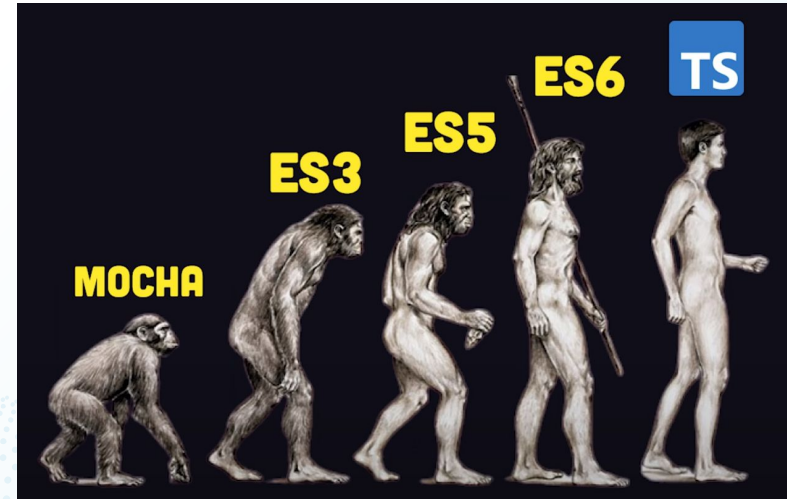
JavaScript

Programming language used for web development

In how many days/weeks/months was JavaScript made?

More on JS...

- Initially called **Mocha** (1995)
- Used to make websites
- Easy to learn
- Most used language
- Natively supported in all browsers

Using JS

- Go to your Repl.it file

- Inside of index.html

- Connects index to the file "script.js"

- Write code in script.js!

```
<script src="script.js"></script>
```

Data Types in JS

String = Defined by (**" "**)

Boolean = **True** or **False**

Number = **1, 2, 3, 4, 5**

Undefined = No variable / nothing is defined

Null = Variable found but has **no value**

```
console.log("ur mom");        console.log(1);        console.log(vrew);

alert("im watching u");       alert(false);          alert(vrtsc); //ERROR
```
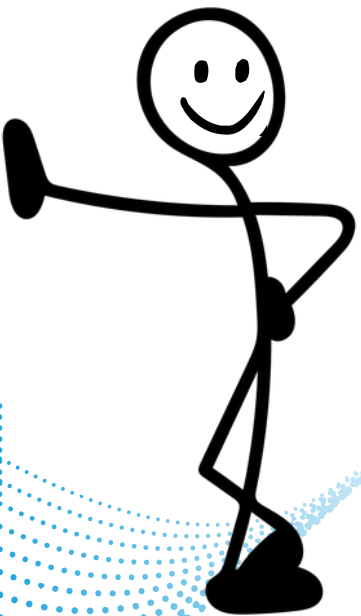
Functions

Bob wants tacos **BUT...**

Bob is lazy, **SO...**

Bob codes his robot make tacos for him

Chicken Taco
- Sauce (mix tomato puree, vinegar, spices, etc)
- Chicken (cook it)
- Tortilla (bake it, put everything in)
- Vegetables (put the veggies in)

Would you write the **SAME** code for the **SAME** steps again and again?
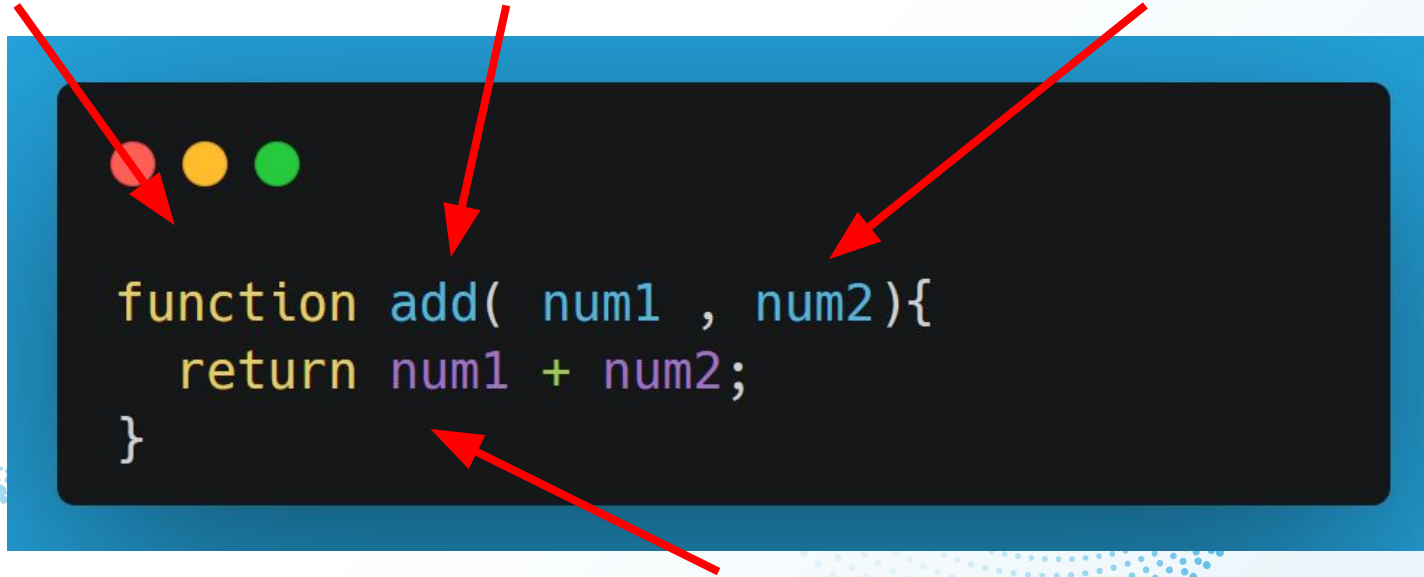
Isn't that repetitive???

FUNCTIONS!!!

Bob

Functions

Write "function"

Write function name

Add parameters

```
function add( num1 , num2){
    return num1 + num2;
}
```

Return what you want the function to output

Interaction in JS

Base code for DOM (Document Model Manipulation)

```html
<h1 id="num1">4</h1>
<h1 id="num2">2</h1>
<button onClick="add()">ADD</button>
<h1 id="result"></h1>
```

Accessed using ID set before

DOM is used to access HTML from JS file and change it accordingly

```javascript
var num1 = document.getElementById("num1");
var num2 = document.getElementById("num2");
var result = document.getElementById("result")
```

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Interaction in JS

This won't work!

```
console.log(num1);
```

```
<h1 id="num1">4</h1>

  align: ""
▸ get align: ƒ get align()
▸ set align: ƒ set align()
▸ constructor: ƒ HTMLHeadingElement()
  Symbol(Symbol.toStringTag): undefined
▸ __proto__: HTMLElement
```

Mentioned how to use before

Accesses the content

```
num1 = num1.innerHTML
```

Interaction in JS

```
num1 = num1.innerHTML
```

**This STILL
doesn't work!**   Because it's in string format

Number format

1 + 1 = 2

String format

1 + 1 = 11

```
num1 = Number(num1.innerHTML);
```