**JavaScript Algorithm and Data structure Notes**

RPG Game

console.log(“Hello World”);  
  
- In javaScript there should be no space between line of codes and the semi-colon that end them. So let name=”alex” ; will cause an error.

- the script tag should always be added at the end of the html document ( just before the body closing tag, </body>). This is because if the script tag is placed at the top, the javascript file will run before the html body is loaded. All queries done by the js file on the html will then be null since it hasn’t been loaded yet.

- JavaScript interacts with html using the **Document Object Model , DOM.** The DOM is a tree of objects that represent the html. You can access the html using the document object which represent your entire html document

Query selector()

It is used to find specific html elements in your document. It takes as parameter or argument a CSS selector and **returns the first element that matches that selector.**  
*Ex: let monsterHealth = document.querySelector(“#monsterHealth”);*

The above will select what ever element in html document who has *monsterHealth* as id. In this case *#monsterHealth* By selecting it, we have the possibility of changing it’s content , color, transform etc.. In short we will have access to all of it’s attributes. For buttons who have even more interesting properties like **onclick**, we will be able to define or assign actions that occure when they are clicked.

*Button2.onclick = buttonaction;*

The above defines what happens when button2 is clicked. It assigns the function buttonaction to the onclick event.

**.innerText** class is used to access the Text content of an html element.

**Objects** are declared in javascript like this : **{}** 🤔 This is weird🤔.

*newObject = {name = “anderson”, age=21, “favorite color” =”blue” }*

That his how to declare and set the attributes of an object in javascript. Notice there is no semicolon the end of variable declarations. It’s almost like python dictionaries. We can also assign functions to object variables.. insane.

Just look at this extract

**const locations = [**

**{**

**name: "town square",**

**"button text": ["Go to store", "Go to cave", "Fight dragon"],**

**"button functions": [goStore, goCave, fightDragon],**

**text: "You are in the town square. You see a sign that says \"Store\"."**

**}**

**];**