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JavaScript (JS) – Recitation 6
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You've all learned HTML and CSS so far, meaning that you know how to put things on a webpage and make them pretty! With JavaScript, you can move things around on your webpage and make things more interactive.

Example: http://www.amplifon.co.uk/interactive-ear/index.html

How and where do I program in JavaScript?

You add <script></script> tags in your HTML page (remember the basic HTML structure), and then you put all the JavaScript in between those tags:

**You could technically put your <script> tags anywhere in the html file. Some people even like putting it in the head, but I recommend putting it right before the closing </body> tag. Where you put it is where it loads.

After you have your basic structure typed out like above, within the **<script>** tags, do this:

```
<script>
alert("Hello world!");
</script>
```

Save your file as helloworld.html, open it up in your browser, and see what happens!

How do we work with variables? Declare, initialize, and assign it to a value.

- **Note: JavaScript is CASE-SENSITIVE (eg. hello is different from HeLLo)
- **-Declaration:** set the variable without giving it a value; you're basically introducing the variable
- **-Initialization**: FIRST time assigning a value to a variable; can be done in the same line as the declaration step
- **-Assignment:** Replacing the old value of a variable with a new value <script>

```
var x; // declaration
var y = 2; //declaration and initialization
x = 3; //initialization
y = 10; // assignment
x = 4; // assignment
</script>
```

Example: prompt() and alert():

```
<script>
     var name=prompt("What is your name?");
     alert(name);
</script>
```

Putting quotes around something triggers the JavaScript String object. Whenever you want to use a variable that you defined earlier, put '+' symbols around the variable.

Example: JavaScript String Object

object.

```
<script>
     var name=prompt("What is your name?");
     alert("Hello, " + name + "!");
</script>
```

Example: JavaScript String Object v. Number Object

Example: prompt(), document.write(), and JavaScript Number Object