My Web Page: aptokash.github.io/PB File Sharing: file.io

HTML TAGS

- We create a web page by editing a text file and saving it as filename.html
 - o (HTML stands for hypertext markup language)
 - Once you create an html file, you can view it in a browser
- Web (html) commands are formatted like this < command>

There will almost always be a start and end command: <command> </command> </command> </command> </command>

```
<!DOCTYPE html> <html lang="en">
```

Our file will have some major sections

```
<html>
<head>
</head>
</head>
<body>
</body>
</body>

this is where we put the main content
<script>
this is where we put our JavaScript!
</script>
</html>
```

- When writing our file, it's good to indent and use blank lines
- Some commands we learned:

```
creates different sized headers
creates different sized headers
puts text in browser tab
starts a paragraph
cimg src="https://web address" height=100px> displays a picture
cimg src="filename.jpg" height=100px> must be in same folder
must be in same folder
draws a horizontal line
cimp some comments --> hidden comments
```

- Use blank lines to separate areas of code
- Use indents to show how code lines up

JAVASCRIPT FUNCTIONS

- JavaScript Code
 - o We write our JavaScript functions in the <script> </script> section
 - Commands always end with a semicolon: ";"
 - o To create variables: var name = value;
 - Functions start with a "{" and end with a "}"
 - Use // to comment out lines (these are not run
- To create code that runs when we first load the page
 - o <body onload="test()"> this runs a function when we load a page
 - Here's the function test we wrote which just displays a message
 Look at how we use the { and } to show the start and end of the function!

```
<script>
    function test() {
        alert("it does");
    }
</script>
```

- To create code that runs when we click a button
 - Create the button in HTML

```
<button onclick="function()"> Click me </button>
```

- Then create the JavaScript function named function()
- Most of our code will be in *functions* in the <script> </script> section.

But we can create variables that are used by all functions.

Like this:

```
<script>
    var randomNumber = Math.floor(Math.random() * 100) + 1;
    alert( randomNumber);
```

This lets us use *randomNumber* in our functions

- To get User Input
 - We can get input from people by using the <input> tag

```
Enter your name <input type='text' id='name'>
```

JS can read it by looking at the id

```
var name = document.getElementById("name");
```

- To set a Random Number from 1 to 100
 - o var randomNumber = Math.floor(Math.random() * 100) + 1;

To change what's displayed

o In HTML we identify a paragraph with an id

O We change it with JS!

```
var message = document.getElementById("message");
message.value = "This is new text";
message.innerHTML = "<b> This is bold text </b>";
```

• To use image or sound files

o The files should be in the same folder as our code

```
src="filename.jpg"
```

We can also use a file on the internet

```
src="https://aptokash.github.io/Home/ZHeadShot0.jpg"
```

To change a picture

o In HTML we identify an image with an id

```
<img src="face ok.jpg" id="name">
```

We change it with JS!

```
var ourvariable = document.getElementById("<u>name</u>");
ourvariable.src = "face happy.jpg";
```

To play a sound file!

Note: sound will only work in a function called by a button!

```
o var audio = new Audio('filename.filetype');
  audio.loop = false;
  audio.play();
```

CSS - Styles!

• To format how things are displayed, we use CSS and put them in a section of code

```
<style>
```

We can format different HTML objects

```
    To format a tag: h1 { color: red; fontsize 10px;}
    p { color: blue; }
    To format an id: #div1 { color: green;}
```

Using ID's

```
O We specify an id to an HTML tag: <p id="message"}
```

O We add css for the tag: #message { color: red;}

Function Variables

• We put all our JS code in the <script> section – we also put functions in there

```
<script>
    function dothis() {
    }
    function dothat()
    }
</script>
```

• We can but VAR statements in the functionIf we have variables that are shared among functions – these are called *global* variables and these we put <u>outside of the functions</u>

```
<script>
    var name = " Presley";
    function dothis() {
    }
    function dothat()
    }
</script>
```

Animation Code

https://www.w3schools.com/howto/howto_js_animate.asp

This week

- I put the ANIMATION file on aptokash.github.io/PB
- Work: add more buttons to change more formatting of the block using JS and CSS