# Assignment Name: JavaScript Video basics Fall 2020

## Due Date: See Canvas

## Goals:

You have been given a starter HTML, JS file and additional assets. You will edit the .js file ONLY. There is no need for a default style sheet and there is no need to fix the transcript error from aXe, but continue to use best practices. You may NOT change the file names.

## Objectives:

1. Demonstrate ability to access and modify HTML general DOM elements.
2. Demonstrate ability to add eventListeners
3. Demonstrate ability to access and modify a video element.
4. Demonstrate ability to use problem solve with JS operators to modify element attributes.
5. Demonstrate the ability to create output via the console.
6. Demonstrate ability to use JS to utilize existing code.
7. Demonstrate ability to link to file that is NOT named index.html

## Resources:

You are provided with a repo that contains the necessary html file and a video of the final results. You will need to edit the js file to transform the original page to one that has the same functionality as our example. Remember, resource files often have a few bugs in them to provide an opportunity to debug and problem-solve.

<https://github.com/UMSIComplexWebDesign/homework_6>

Make sure to use the Canvas resources on the video DOM and listeners!!

## Requirements:

1. All files and folders present, HTML in proper format, no styles in HTML, etc. **DO NOT MAKE ANY CHANGES TO THE HTML BODY** unless it is to fix validation errors. **Do not add any classes or ids.**
2. Validate all of the code - do this throughout the entire process.

### **The following functionalities must be implemented:**

|  |  |
| --- | --- |
| **Elements** | **Objective** |
| Play Button | Play the video and update the volume information. |
| Pause Button | Pause the video. |
| Slow Down | Slow the current video speed by 10% each time the button is clicked and ***log the new speed to the console***. |
| Speed Up | Increase the current video speed by each time the button is clicked and ***log the new speed to the console***. Change it by an amount proportional to the slow down. |
| Skip Ahead | Advance the current video by 5 seconds. If the video length has been exceeded - go back to the start of the video. Log the current location of the video and play the video. |
| Mute | Mute/unmute the video and update the text in the button. |
| Volume Slider | Change the volume based on the slider and update the volume information. |
| Old School | Utilize the existing grayscale class. |
| Original | Remove the grayscale class. |

### **Example:**

You can see an example of the program in action in Canvas.

## Tips!

1. IMPORTANT!!! The video format for the video homework will not play in many versions of Safari. Please develop in Chrome or Firefox. The autograder will ONLY be testing in Chrome, no two browsers.
2. Look things up! W3schools has a great HTML Audio/Video DOM Reference so does <https://www.html5rocks.com/en/tutorials/video/basics/>
3. Many of these functions alter more than one DOM element - many update the volume information as well as the video element - make sure you check your code carefully.

## Submission Requirements:

1. Submit link to working demo repo in canvas. We want to see the deployed page, not the code so the URL *should be similar to* ***<your-user-name>.github.io/homework6*** This one is a little different since you will not have an index.html file.

### **Deeper Questions…**

1. Can you add something that shows the current runtime of the video?
2. Can you have the video element show a thumbnail?
3. Can you use a different video and get it to work?
4. Is your player accessible? Including the slider? <https://developer.mozilla.org/en-US/docs/Learn/Accessibility/Multimedia>