

COMP 120: Web Programming and Engineering

Lab: *Union Strike Folk Song*

Lab Objectives

1. Practice writing JavaScript.
2. Practice using the Document Object Model (DOM).
3. Practice with using JavaScript objects.
4. Understand event handling and using first-class function.
5. Recognize the power of HTML5.

Overview

HTML5 introduces built-in media support via the `<audio>` and `<video>` elements, offering the ability to easily embed and manipulate media on web pages (Mozilla.org). In this lab, you will create a web page that annotates a video with text and perhaps other media.

The Video

The video that you will annotate is an old song:



You are free to use the following to access the video on your page and there is no need to make a copy of the video onto your computer:

```
<video src="https://www.cs.tufts.edu/comp/120/butwehavethepower.mp4" id="butwehavethepower" controls>
</video>
```

Lyrics to the "Union Strike Folk Song"

Lisa:
Come gather round, children,
It's high time ye learned
'Bout a hero named Homer
And a devil named Burns.

We'll march 'till we drop
The girls and the fellas.
We'll fight 'till the death
Or else fold like umbrellas.

So we'll march day and night
By the big cooling tower.
They have the plant

But we have the power.

Lenny:
Now do "Classical Gas!"

So we'll march day and night
By the big cooling tower.
They have the plant

But we have the power.

Getting Started

Once again, I am going to give you the HTML so you do not have to write it! Copy and paste the following HTML below as your **index.html**:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8" />
<title>Union Strike Folk Song</title>
<link rel="stylesheet" href="style.css" type="text/css" />
</head>

<body>

<h1 id="title">Union Strike Folk Song</h1>

<video src="https://www.cs.tufts.edu/comp/120/butwehavethepower.mp4" id="butwehavethepower" contro
<div id="lyrics"></div>

<script>
    // Complete this section and create a CSS file named style.css
</script>
</body>
</html>
```

Instructions

Using JavaScript, annotate the video with the lyrics of the song inside the **<div id="lyrics">**, *line by line or by verse*. Finally, you must provide some styling for the page via **style.css**.

Readings and References

- [Using HTML5 audio and video \(Mozilla\)](#)
- [addEventListener\(\). \(Mozilla\)](#)
- [Media events \(Mozilla\)](#)

The README File

Each lab shall include a **README** file that describes the work. This description must:

1. Identify what aspects of the work have been correctly implemented and what have not.
2. Identify anyone with whom you have collaborated or discussed the lab.
3. Say approximately how many hours you have spent completing the lab.
4. Be written in either text format (**README.txt**) or in Markdown (**README.md**). Markdown is preferred. No other formats will be accepted. Please use all capital letters for **README**

This **README.md** file must be directly in the folder of the lab.

Important

- You are not allowed to use jQuery for this lab.
- You are not allowed to use WebVTT or VTTCue for this lab.

Submitting Your Lab

Push all your files (the HTML, the CSS, the README) to a folder named **butwehavethepower** inside of the private GitHub repo I created for you. Say that your private repository is named **comp120-mchow**, make sure all the files are pushed to **comp120-mchow/butwehavethepower**. **Please do not add and push the video to repository!**

```
# Inside your private GitHub repo folder (e.g., comp120-mchow)
git add .
git commit -m "Some good commit message here"
git push
```

Assessment

This lab is worth 4 points.

- (1 point) The basics (e.g., folder name in private GitHub repository, file names, repo name, README.md file, one CSS file)
- (3 points) The **index.html** page following all the instructions above
- (-4 points) You used jQuery or WebVTT
- (-3 points) Errors and outputs (e.g., from **console.log statements**) exist in JavaScript console