

Hui Xin Data Collection 3/13/20

Notebook: Animation Templates

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URL: <https://stackoverflow.com/questions/25515936/perform-curl-request-in-javascript>

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JavaScript/JSON Methods/Libraries to Know:

Perform **curl** request in javascript?

- <https://stackoverflow.com/questions/25515936/perform-curl-request-in-javascript>

Let in JS

- <https://stackoverflow.com/questions/762011/whats-the-difference-between-using-let-and-var?page=1&tab=votes#tab-top>

JSON.parse()

- A common use of JSON is to exchange data to/from a web server
- When receiving data from a web server, the data is always a string
- Parse the data with JSON.parse(), and the data becomes a **JS object**

```
'{"name":"John", "age":30, "city":"New York"}'  
  
// Use the JavaScript function JSON.parse() to convert text into a JS object  
  
var obj = JSON.parse('{"name":"John", "age":30,"city":"New York"}');
```

JSON.stringify()

- Data to a web server must be as a string

```
var obj = { name: "John" , age: 30 ,city: "New York"};  
  
//convert to string  
  
var myJSON = JSON.stringify(obj);  
  
// myJSON is now the obj as string. Send to server  
  
document.getElementById("demo").innerHTML = myJSON;  
  
Output:  
  
{"name":"John","age":30,"city":"New York"}
```

```
//Stringify a JS Array  
  
var arr = [ "John", "Peter", "Sally", "Jane" ];  
  
var myJSON = JSON.stringify(arr);  
  
document.getElementById("demo").innerHTML = myJSON;  
  
output:  
  
["John","Peter","Sally","Jane"]
```

Fs (File System) module

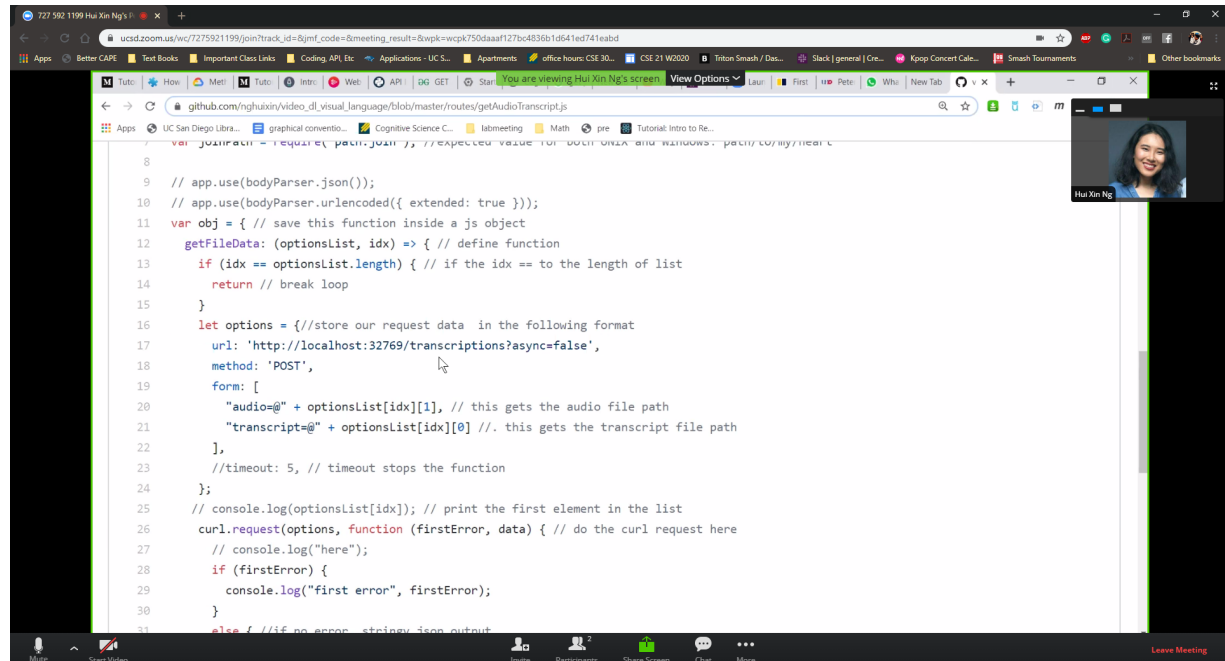
- Node.js includes fs module to access physical file system. The fs module is responsible for all the asynchronous or synchronous file I/O operations.
- <https://www.tutorialsteacher.com/nodejs/nodejs-file-system>

Good Coding Practice:

Code basic example of your intended project and confirm your knowledge of the documentation by seeing if your basic example works.

Then code your actual project

getTranscripts.js:

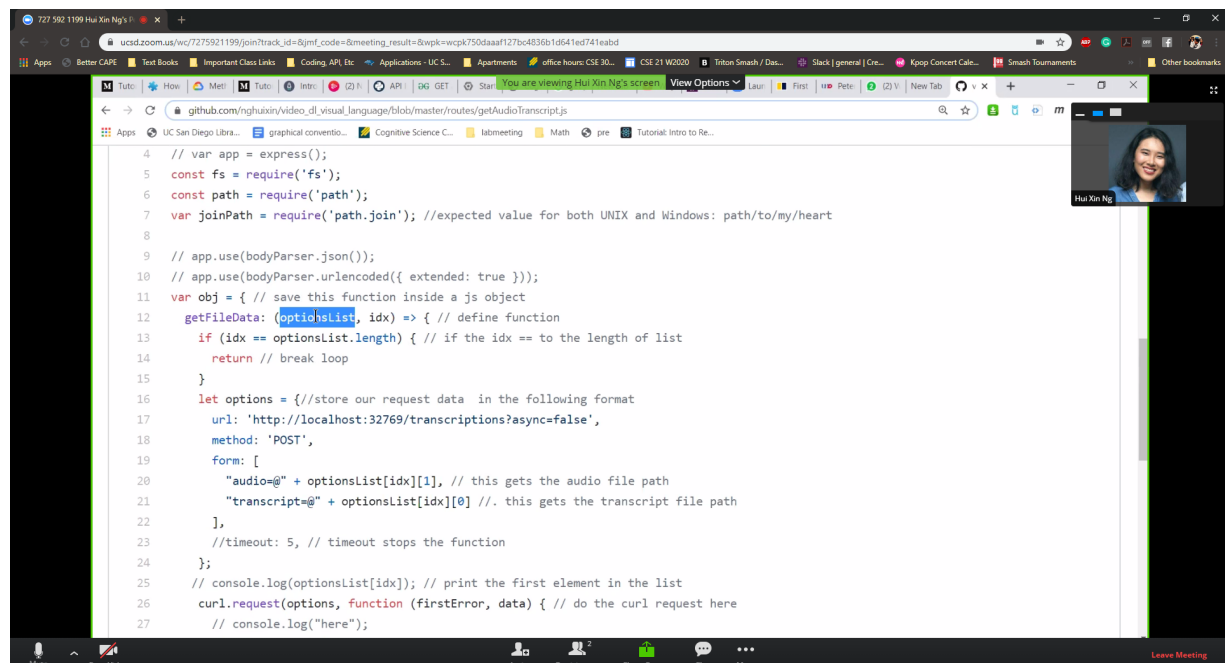


```

8
9 // app.use(bodyParser.json());
10 // app.use(bodyParser.urlencoded({ extended: true }));
11 var obj = { // save this function inside a js object
12   getFileData: (optionsList, idx) => { // define function
13     if (idx == optionsList.length) { // if the idx == to the length of list
14       return // break loop
15     }
16     let options = { //store our request data in the following format
17       url: 'http://localhost:32769/transcriptions?async=false',
18       method: 'POST',
19       form: [
20         "audio=@" + optionsList[idx][1], // this gets the audio file path
21         "transcript=@" + optionsList[idx][0] // this gets the transcript file path
22       ],
23       //timeout: 5, // timeout stops the function
24     };
25     // console.log(optionsList[idx]); // print the first element in the list
26     curl.request(options, function (firstError, data) { // do the curl request here
27       // console.log("here");
28       if (firstError) {
29         console.log("first error", firstError);
30       }
31     });
32   }
33 }

```

- optionslist: contains list of the audios and transcripts
 - inside Hui Xin's youtube-dl/downloads/audio
 - All the audios of the youtube videos extracted



```

4 // var app = express();
5 const fs = require('fs');
6 const path = require('path');
7 var joinPath = require('path.join'); //expected value for both UNIX and Windows: path/to/my/heart
8
9 // app.use(bodyParser.json());
10 // app.use(bodyParser.urlencoded({ extended: true }));
11 var obj = { // save this function inside a js object
12   getFileData: (optionsList, idx) => { // define function
13     if (idx == optionsList.length) { // if the idx == to the length of list
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22       ],
23       //timeout: 5, // timeout stops the function
24     };
25     // console.log(optionsList[idx]); // print the first element in the list
26     curl.request(options, function (firstError, data) { // do the curl request here
27       // console.log("here");
28     });
29   }
30 }

```

getFileData(...):

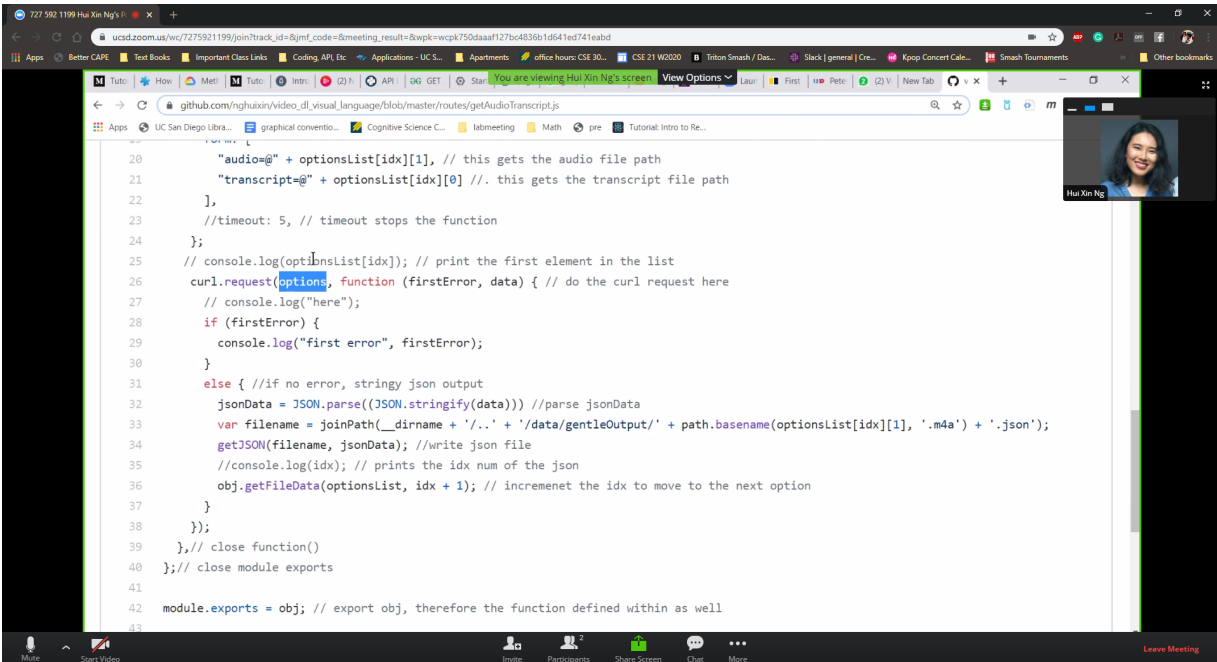
idx = argument Hui Xin created in order for her to move to the next element in the list of lists.

```

var obj = JSON object
// recursive function that calls obj.getFileData

var filename = joinPath...
//She defined the output as gentleOutput folder
//getJson saves the Gentle Jsons into an output file on her local computer

```



what is an asynchronous function?

https://www.google.com/search?q=what+is+an+asynchronous+function&rlz=1C1CHBF_enUS815US815&eq=what+is+an+asynchro&aqs=chrome.4.0j69i57j0l6.5637j1j1&sourceid=chrome&ie=UTF-8

first if statement is a catch

else statement toString() json output

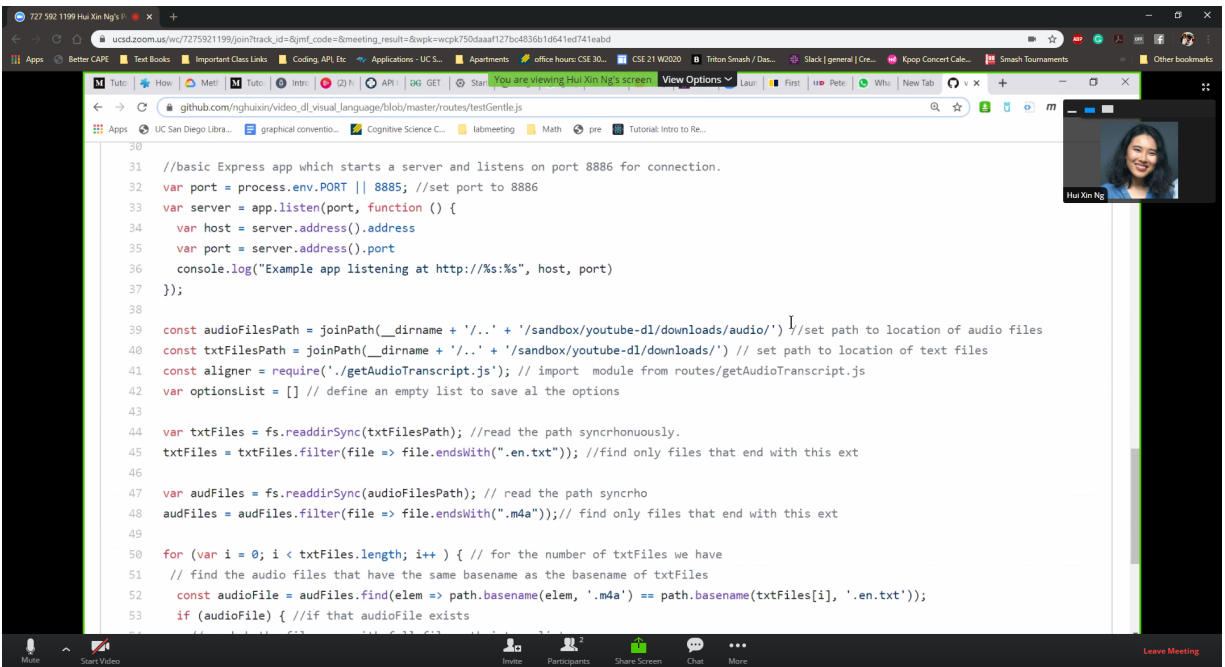
var filename indicates

```

getJSON(filename,data) {
  //stringify data and parse the data
  //uses fs to write the file
  //try catch for failure and success cases

```

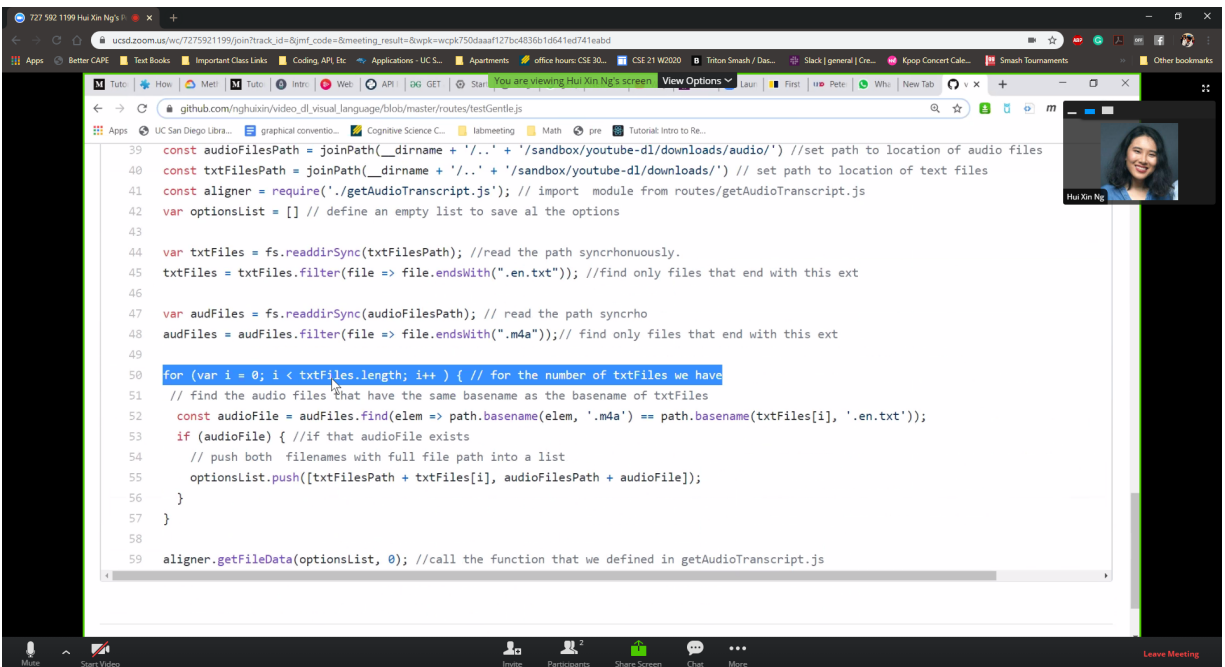
testGentle.js:



- How do I call the function getFileData from the other js?
- Define an aligner variable that requires that js file

// Read up on fs js documentation

```
txtFiles = txtFiles.filter(file => file.endsWith(".en.txt"));  
// find files that end with this extension  
// this is to filter out non-english transcript files
```



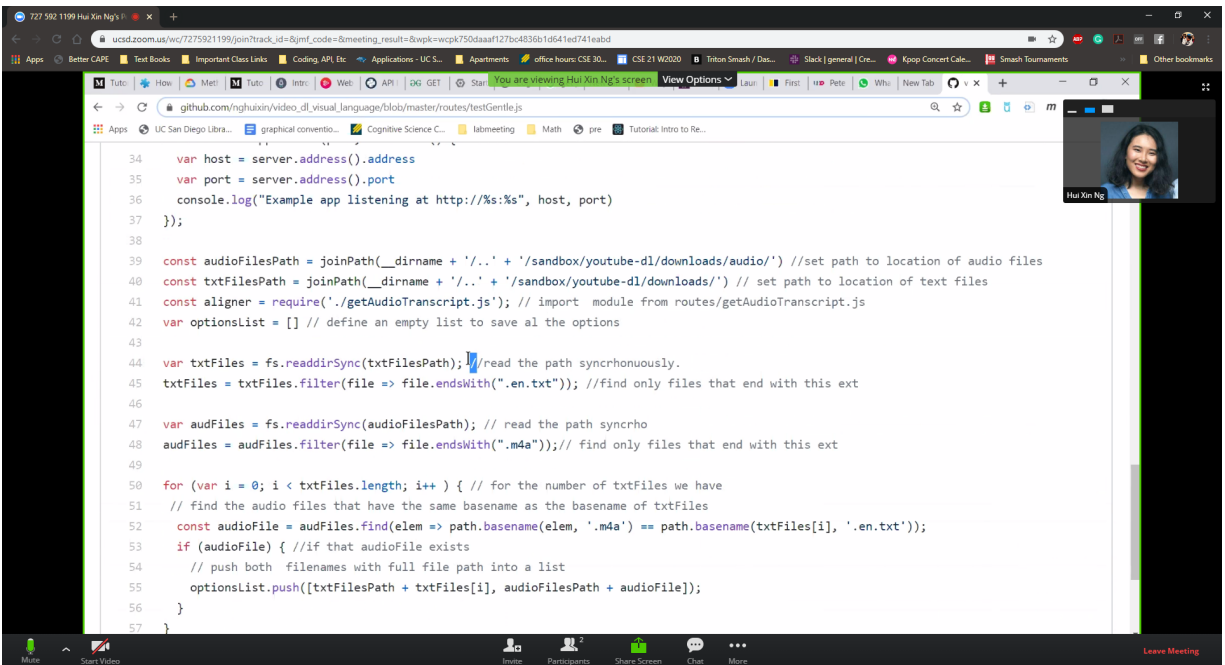
The for loop:

```
if(audiofilename = videoId):  
    push both filenames into a list  
    then insert this into a list of lists
```

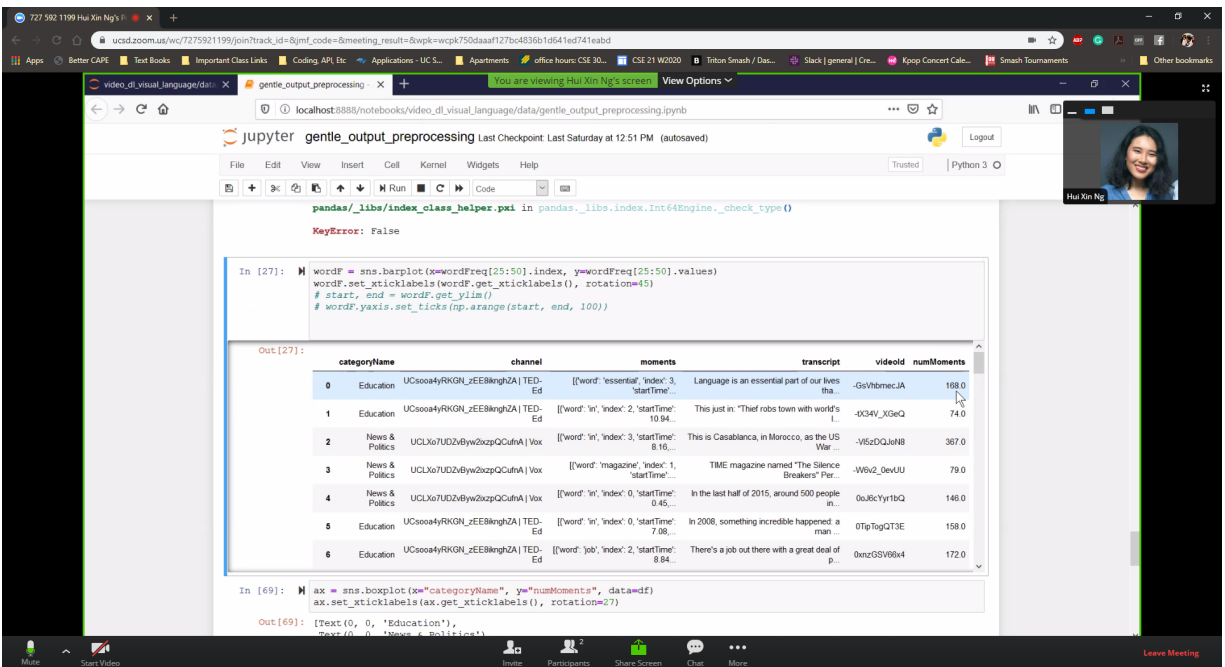
path.basename drops the extensions so you can compare just the videoIds

Hui Xin:

Drop the extensions to do the name comparisons then reinsert the extensions to complete the curl request



gentle_output_processing:



numMoments: number of synset rating words that appear in that transcript