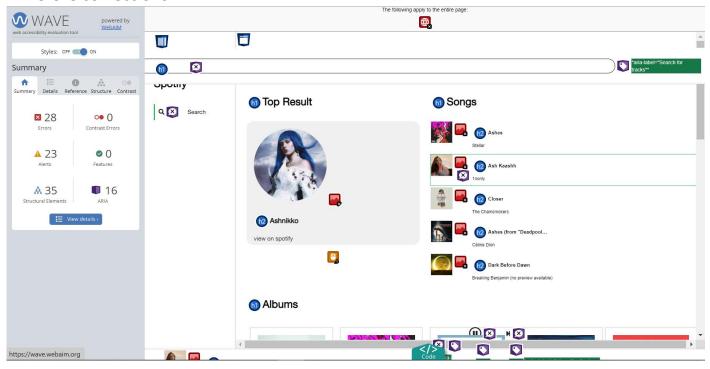
COMP SCI130 Homework 4:

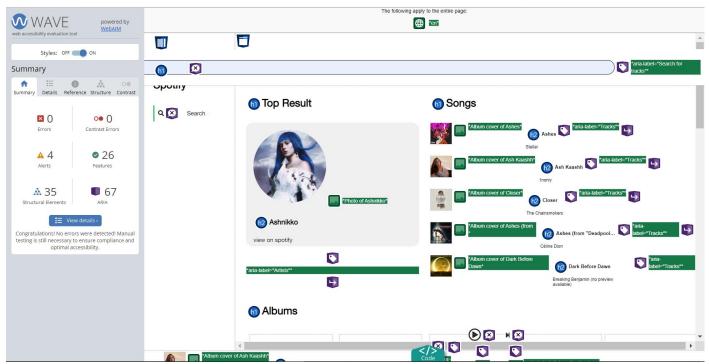
Name: Susan Jiayang Liao, UID: 3405013

1. WAVE accessibility report (search for "ash"):

Before corrections:



After corrections:



- What corrections did you have to make, and how did you make them?
 - 1. HTML file ("index.html")
 - a. Add a language tag to specify the language of the entire page:

```
Example: <html> → <html lang="en">
```

- 2. JavaScript file ("script.js")
 - a. Add alternative information for each image in the page, in case that the image is unable to display. Add in all HTML generators in script.js, under functions "getTracksHTML()", "getArtistsHTML()", and "getAlbumsHTML()".

```
Example: <img src="..." alt="Album cover of ${data.name}">
```

b. Use **tabindex="0"** for "onclick event handler" to make the keyboard navigable, so that users can now just use keyboard keys to do some functions, i.e., play and pause the music.

```
Add <section class="..." tabindex="0"> in all HTML generators in script.js, under functions "getTracksHTML()", "getArtistsHTML()", and "getAlbumsHTML()".
```

```
Example: <section class="..." id="..." onclick="...;" tabindex="0">
```

c. Add aria-labels for every "clickables" in the page, i.e., buttons, artist-cards, tracks, albums...

Add <... aria-label="(Corresponding contents)"> in all HTML generators in script.js, under functions

"getTracksHTML()", "getArtistsHTML()", and "getAlbumsHTML()".

Example:

```
<section class="..." id="..." onclick="...;" tabindex="0" aria-label="Artists">
```

- Is this interface functional without the use of a mouse (i.e., just using keyboard keys)? Why or why not?
 - The interface is functional without the use of a mouse. You can use "Tab + Enter" to access all clickables in the page.
 - o You can use the keyboard to type in the search box and press "Enter" to start a search.
 - O Disadvantage: It's sometimes tedious to use "Tab" to go through all the clickables in the page if you just missed the wanted one. However, the "" and "" buttons here is used to scroll up and down the page. So, the most feasible option here is to use "Tab" to transverse all the clickable until find the desired one and press "Enter" there.

С

- What are other accessibility tests or features you added or would be interested in learning about?
 - 1. Features
 - a. I replace the attribute \${data.name} with a nameList generated by a for loop, so that we can display the names of all artists of a track.

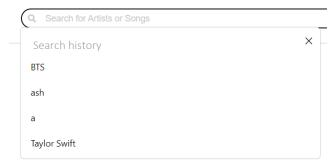
```
for (const track of Object.keys(topTracks)){
   nameList="";
   for (const artist of topTracks[track].artists){
      nameList+=artist.name;
      nameList+=", ";
   }
   nameList=nameList.slice(0,-2);
   elem.innerHTML += getAlbumTracksHTML(topTracks[track],nameList, albumImage);}

   Valhalla (Feat. Hash Swan & Y...
      ASH ISLAND, Hash Swan & Y...
      ASH ISLAND, CHANGMO
       ASH ISLAND, CHANGMO
      ASH ISLAND, CHANGMO
      ASH ISLAND, CHANGMO
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      ASH ISLAND, CHANGMO
      ASH
```

- b. There is no image attributes when getting tracks from an album. Therefore, I display the image of album for each track if their own image is unavailable.
 - See function const getAlbumTracksHTML = (data,nameList,image url) in script.js

2. Other accessibility tests.

a. The page will store the search history, increasing the convenience.Question: Where is the search history stored, in the cookies or local cache memory?



3. Other features

- a. I compared the documentation of Spotify API and the api tutor we used in extra credits. I found that for Spotify API, users are required to obtain an account and corresponding keys to authorize API calls. Hope we can explore some other real-life APIs in the future!
- b. I finished all the extra credit questions except the last one, due to some confusion and difficulties in using YouTube API. Looking forward to seeing some examples in tutorial!