JavaScript music player from github:

Index.html: <!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<!-- font awesome cdn link -->

<link

rel="stylesheet"

href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.5.1/css/all.min.css"

integrity="sha512-DTOQO9RWCH3ppGqcWaEA1BIZOC6xxalwEsw9c2QQeAIftl+Vegovlnee1c9QX4TctnWMn13TZye+giMm8e2LwA=="

crossorigin="anonymous"

referrerpolicy="no-referrer"

/>

<title>Music Player</title>

<link rel="stylesheet" href="/assets/css/style.css" />

</head>

<body>

<div class="player">

<div class="wrapper">

<div class="details">

<div class="now-playing">PLAYING x OF y</div>

<div class="track-art"></div>

<div class="track-name">Track Name</div>

<div class="track-artist">Track Artist</div>

</div>

<div class="slider\_container">

<div class="current-time">00:00</div>

<input

type="range"

min="1"

max="100"

value="0"

class="seek\_slider"

onchange="seekTo()"

/>

<div class="total-duration">00:00</div>

</div>

<div class="slider\_container">

<i class="fa fa-volume-down"></i>

<input

type="range"

min="1"

max="100"

value="99"

class="volume\_slider"

onchange="setVolume()"

/>

<i class="fa fa-volume-up"></i>

</div>

<div class="buttons">

<div class="random-track" onclick="randomTrack()">

<i class="fas fa-random fa-2x" title="random"></i>

</div>

<div class="prev-track" onclick="prevTrack()">

<i class="fa fa-step-backward fa-2x"></i>

</div>

<div class="playpause-track" onclick="playpauseTrack()">

<i class="fa fa-play-circle fa-5x"></i>

</div>

<div class="next-track" onclick="nextTrack()">

<i class="fa fa-step-forward fa-2x"></i>

</div>

<div class="repeat-track" onclick="repeatTrack()">

<i class="fa fa-repeat fa-2x" title="repeat"></i>

</div>

</div>

<div id="wave">

<span class="stroke"></span>

<span class="stroke"></span>

<span class="stroke"></span>

<span class="stroke"></span>

<span class="stroke"></span>

<span class="stroke"></span>

<span class="stroke"></span>

</div>

</div>

</div>

<script src="/assets/js/main.js"></script>

</body>

</html>.

Main.js: let now\_playing = document.querySelector(".now-playing");

let track\_art = document.querySelector(".track-art");

let track\_name = document.querySelector(".track-name");

let track\_artist = document.querySelector(".track-artist");

let playpause\_btn = document.querySelector(".playpause-track");

let next\_btn = document.querySelector(".next-track");

let prev\_btn = document.querySelector(".prev-track");

let seek\_slider = document.querySelector(".seek\_slider");

let volume\_slider = document.querySelector(".volume\_slider");

let curr\_time = document.querySelector(".current-time");

let total\_duration = document.querySelector(".total-duration");

let wave = document.getElementById("wave");

let randomIcon = document.querySelector(".fa-random");

let curr\_track = document.createElement("audio");

let track\_index = 0;

let isPlaying = false;

let isRandom = false;

let updateTimer;

const music\_list = [

{

img: "assets/images/OrkhanZeynalli.jpg",

name: "Iller Sonra",

artist: "Orkhan Zeynalli",

music: "assets/music/İller Sonra.mp3",

},

{

img: "assets/images/ceza.jpg",

name: "Neyim Var Ki",

artist: "CEZA",

music: "assets/music/Neyim Var Ki.mp3",

},

{

img: "assets/images/Gazapizm.jpg",

name: "Unutulacak Dunler",

artist: "Gazapizm",

music: "assets/music/Unutulacak Dunler.mp3",

},

{

img: "assets/images/AID.jpg",

name: "Boyuk Umidler",

artist: "Orkhan Zeynalli",

music: "assets/music/Boyuk Umidler.mp3",

},

];

loadTrack(track\_index);

function loadTrack(track\_index) {

clearInterval(updateTimer);

reset();

curr\_track.src = music\_list[track\_index].music;

curr\_track.load();

track\_art.style.backgroundImage = "url(" + music\_list[track\_index].img + ")";

track\_name.textContent = music\_list[track\_index].name;

track\_artist.textContent = music\_list[track\_index].artist;

now\_playing.textContent =

"Playing music" + (track\_index + 1) + " of " + music\_list.length;

updateTimer = setInterval(setUpdate, 1000);

curr\_track.addEventListener("ended", nextTrack);

}

function reset() {

curr\_time.textContent = "00:00";

total\_duration.textContent = "00:00";

seek\_slider.value = 0;

}

function randomTrack() {

isRandom ? pauseRandom() : playRandom();

}

function playRandom() {

isRandom = true;

randomIcon.classList.add("randomActive");

}

function pauseRandom() {

isRandom = false;

randomIcon.classList.remove("randomActive");

}

function repeatTrack() {

let current\_index = track\_index;

loadTrack(current\_index);

playTrack();

}

function playpauseTrack() {

isPlaying ? pauseTrack() : playTrack();

}

function playTrack() {

curr\_track.play();

isPlaying = true;

track\_art.classList.add("rotate");

wave.classList.add("loader");

playpause\_btn.innerHTML = '<i class="fa fa-pause-circle fa-5x"></i>';

}

function pauseTrack() {

curr\_track.pause();

isPlaying = false;

track\_art.classList.remove("rotate");

wave.classList.remove("loader");

playpause\_btn.innerHTML = '<i class="fa fa-play-circle fa-5x"></i>';

}

function nextTrack() {

if (track\_index < music\_list.length - 1 && isRandom === false) {

track\_index += 1;

} else if (track\_index < music\_list.length - 1 && isRandom === true) {

let random\_index = Number.parseInt(Math.random() \* music\_list.length);

track\_index = random\_index;

} else {

track\_index = 0;

}

loadTrack(track\_index);

playTrack();

}

function prevTrack() {

if (track\_index > 0) {

track\_index -= 1;

} else {

track\_index = music\_list.length - 1;

}

loadTrack(track\_index);

playTrack();

}

function seekTo() {

let seekTo = curr\_track.duration \* (seek\_slider.value / 100);

curr\_track.currentTime = seekTo;

}

function setVolume() {

curr\_track.volume = volume\_slider.value / 100;

}

function setUpdate() {

let seekPosition = 0;

if (!isNaN(curr\_track.duration)) {

seekPosition = curr\_track.currentTime \* (100 / curr\_track.duration);

seek\_slider.value = seekPosition;

let currentMinutes = Math.floor(curr\_track.currentTime / 60);

let currentSeconds = Math.floor(

curr\_track.currentTime - currentMinutes \* 60

);

let durationMinutes = Math.floor(curr\_track.duration / 60);

let durationSeconds = Math.floor(

(curr\_track.duration - durationMinutes \* 60)

);

if (currentSeconds < 10) {

currentSeconds = "0" + currentSeconds;

}

if (durationSeconds < 10) {

durationSeconds = "0" + durationSeconds;

}

if (currentMinutes < 10) {

currentMinutes = "0" + currentMinutes;

}

if (durationMinutes < 10) {

durationMinutes = "0" + durationMinutes;

}

curr\_time.textContent = currentMinutes + ":" + currentSeconds;

total\_duration.textContent = durationMinutes + ":" + durationSeconds;

}

}.

style.css: \* {

margin: 0;

padding: 0%;

box-sizing: border-box;

}

body {

font-family: Arial, Helvetica, sans-serif;

font-weight: bold;

background-image: url(/assets/images/1121240.jpg);

background-size: cover;

background-repeat: no-repeat;

background-position: center;

}

.player {

height: 100vh;

display: flex;

align-items: center;

flex-direction: column;

justify-content: center;

}

.wrapper {

border: 2px solid #fff;

padding: 30px;

border-radius: 20px;

backdrop-filter: blur(30px);

background: rgba(0, 0, 0, 0.588);

}

.details {

display: flex;

align-items: center;

flex-direction: column;

justify-content: center;

}

.track-art {

margin: 25px;

height: 250px;

width: 250px;

border: 2px solid #fff;

background-size: cover;

background-position: center;

border-radius: 50%;

}

.now-playing {

font-size: 1rem;

color: #fff;

}

.track-name {

font-size: 2.5rem;

color: #fff;

}

.track-artist {

margin-top: 5px;

font-size: 1.5rem;

color: #fff;

}

.buttons {

display: flex;

flex-direction: row;

align-items: center;

margin-bottom: 30px;

}

.active {

color: #000;

}

.repeat-track,

.next-track,

.playpause-track,

.prev-track,

.random-track {

padding: 25px;

color: #fff;

}

.slider\_container {

display: flex;

justify-content: center;

align-items: center;

}

.seek\_slider,

.volume\_slider {

-webkit-appearance: none;

-moz-appearance: none;

appearance: none;

height: 5px;

background: #83a9ff;

-webkit-transition: 0.2s;

transition: opacity 0.2s;

}

.seek\_slider::-webkit-slider-thumb,

.volume\_slider::-webkit-slider-thumb {

-webkit-appearance: none;

-moz-appearance: none;

appearance: none;

width: 15px;

height: 15px;

background: #fff;

border: 2px solid #3774ff;

cursor: grab;

border-radius: 100%;

}

.seek\_slider:hover,

.volume\_slider:hover {

opacity: 1;

}

.seek\_slider {

width: 60%;

}

.volume\_slider {

width: 30%;

}

.current-time,

.total-duration {

padding: 10px;

color: #fff;

}

i.fa-volume-down,

i.fa-volume-up {

padding: 10px;

}

i,

i.fa-play-circle,

i.fa-pause-circle,

i.fa-step-forward,

i.fa-step-backward,

p {

cursor: pointer;

color: #fff;

}

.randomActive {

color: #fff;

}

.rotate {

animation: rotation 8s infinite linear;

}

@keyframes rotation {

from {

transform: rotate(0deg);

}

to {

transform: rotate(359deg);

}

}

.loader {

height: 70px;

display: flex;

justify-content: center;

align-items: center;

}

.loader .stroke {

background: #f1f1f1;

height: 150%;

width: 10px;

border-radius: 50px;

margin: 0 5px;

animation: animate 1.4s linear infinite;

}

@keyframes animate {

50% {

height: 20%;

background-color: #4286f4;

}

100% {

height: 100%;

background: #4286f4;

}

}

.stroke:nth-child(1) {

animation-delay: 0s;

}

.stroke:nth-child(2) {

animation-delay: 0.3s;

}

.stroke:nth-child(3) {

animation-delay: 0.6s;

}

.stroke:nth-child(4) {

animation-delay: 0.9s;

}

.stroke:nth-child(5) {

animation-delay: 0.6s;

}

.stroke:nth-child(6) {

animation-delay: 0.3s;

}

.stroke:nth-child(7) {

animation-delay: 0s;

}.

Video Playlist Gallery Like Udemy Skillshare HTML CSS project GitHub:

index.html: <!--

🎬 Video playlist UI Design like Skillshare With Vanilla JavaScript

👨🏻‍⚕️ By: Coding Design

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-->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>Video Playlist UI Design Like Udemy | SkillShare</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<main class="container">

<section class="main-video">

<video src="videos/manipulate text background.mp4" controls autoplay muted></video>

<h3 class="title">Title of the playing Video.</h3>

</section>

<section class="video-playlist">

<h3 class="title">Title of Video Playlist</h3>

<p>10 lessions &nbsp; . &nbsp; 50m 48s</p>

<div class="videos">

</div>

</section>

</main>

<script src="script.js"></script>

</body>

</html>.

Style.css: /\*

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\*/

:root {

--primary : linear-gradient(to bottom right, #0a0057, #3f00ee);

--secondary : gold;

--text : #fff;

}

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

min-height: 100vh;

background-image: var(--primary);

font-family: sans-serif;

color: var(--text);

display: flex;

align-items: center;

}

.container {

width: 100vw;

display: grid;

grid-template-columns: 1.8fr 1.2fr;

gap: 1rem;

padding: .5rem 1rem;

text-transform: capitalize;

}

@media screen and (max-width: 990px) {

.container {

grid-template-columns: 1fr;

}

}

.main-video, .video-playlist {

width: 100%;

height: 30rem;

}

.main-video .title {

margin-top: 1rem;

}

.video-playlist .title {

padding-left: 1rem;

}

.video-playlist > p {

padding: 1rem;

color: var(--secondary);

}

.video-playlist .videos{

height: 70%;

overflow-y: auto;

}

.video-playlist .videos::-webkit-scrollbar {

width: .4rem;

border-radius: .4rem;

background-color: #0005;

}

.video-playlist .videos::-webkit-scrollbar-thumb {

border-radius: .4rem;

background-color: #fff;

}

.video-playlist .videos .video {

position: relative;

width: 100%;

height: 4rem;

display: flex;

justify-content: center;

align-items: center;

padding: 0 1rem;

margin-top: .1rem;

cursor: pointer;

border-radius: .5rem;

}

.video-playlist .videos .video:hover {

background-color: #0003;

}

.video-playlist .videos .video.active {

background-color: #0003;

color: var(--secondary);

}

.main-video video {

width: 100%;

border-radius: .5rem;

}

.video img {

position: absolute;

left: 1rem;

top: 50%;

transform: translateY(-50%);

width: 1.5rem;

height: 1.5rem;

filter: invert(100%);

}

.video-playlist .videos .video.active img {

filter: invert(100%) sepia(100%) saturate(2000%) hue-rotate(360deg);

}

.video p {

margin-left: 2.5rem;

}

.video h3 {

width: 23rem;

white-space: nowrap;

overflow: hidden;

text-overflow: ellipsis;

font: 100 1rem sans-serif;

padding: 0 .5rem;

}.

Script.js: /\*

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\*/

const main\_video = document.querySelector('.main-video video');

const main\_video\_title = document.querySelector('.main-video .title');

const video\_playlist = document.querySelector('.video-playlist .videos');

let data = [

{

'id': 'a1',

'title': 'manipulate text background',

'name': 'manipulate text background.mp4',

'duration': '2:47',

},

{

'id': 'a2',

'title': 'build gauge with css',

'name': 'build gauge with css.mp4',

'duration': '2:45',

},

{

'id': 'a3',

'title': '3D popup card',

'name': '3D popup card.mp4',

'duration': '24:49',

},

{

'id': 'a4',

'title': 'customize HTML5 form elements',

'name': 'customize HTML5 form elements.mp4',

'duration': '3:59',

},

{

'id': 'a5',

'title': 'custom select box',

'name': 'custom select box.mp4',

'duration': '4:25',

},

{

'id': 'a6',

'title': 'embed google map to contact form',

'name': 'embed google map to contact form.mp4',

'duration': '5:33',

},

{

'id': 'a7',

'title': 'password strength checker javascript web app',

'name': 'password strength checker javascript web app.mp4',

'duration': '0:29',

},

{

'id': 'a8',

'title': 'custom range slider',

'name': 'custom range slider.mp4',

'duration': '1:12',

},

{

'id': 'a9',

'title': 'animated shopping cart',

'name': 'animated shopping cart.mp4',

'duration': '3:38',

},

];

data.forEach((video, i) => {

let video\_element = `

<div class="video" data-id="${video.id}">

<img src="images/play.svg" alt="">

<p>${i + 1 > 9 ? i + 1 : '0' + (i + 1)}. </p>

<h3 class="title">${video.title}</h3>

<p class="time">${video.duration}</p>

</div>

`;

video\_playlist.innerHTML += video\_element;

})

let videos = document.querySelectorAll('.video');

videos[0].classList.add('active');

videos[0].querySelector('img').src = 'images/pause.svg';

videos.forEach(selected\_video => {

selected\_video.onclick = () => {

for (all\_videos of videos) {

all\_videos.classList.remove('active');

all\_videos.querySelector('img').src = 'images/play.svg';

}

selected\_video.classList.add('active');

selected\_video.querySelector('img').src = 'images/pause.svg';

let match\_video = data.find(video => video.id == selected\_video.dataset.id);

main\_video.src = 'videos/' + match\_video.name;

main\_video\_title.innerHTML = match\_video.title;

}

});.

Our current project in which I would like to incorporate a combination of the above two projects in the place of the controls here. I have moved the loop button on the left of the graph because I want to keep it separate from the media player thing that we will be integrating but that control overlay after the plot is the place that is the box where I would like to place the player in a nice box with ease to user and the theme also changes with the theme.js. here are the current code.

Index.html: <!DOCTYPE html>

<html lang="en">

    <head>

        <meta charset="UTF-8">

        <meta name="viewport" content="width=device-width, initial-scale=1.0">

        <title>Volume Modulator</title>

        <link rel="stylesheet" href="style.css">

        <script defer src="theme.js"></script>

        <script src="libs/plotly.min.js"></script>

        <script src="https://www.youtube.com/iframe\_api"></script>

    </head>

<body>

    <nav class="navbar">

        <ul class="navbar-nav">

            <li class="logo">

                <a href="#" class="nav-link">

                    <span class="link-text logo-text">Modulator</span>

                    <svg

                        aria-hidden="true"

                        focusable="false"

                        data-prefix="fad"

                        data-icon="angle-double-right"

                        role="img"

                        xmlns="http://www.w3.org/2000/svg"

                        viewBox="0 0 448 512"

                        class="svg-inline--fa fa-angle-double-right fa-w-14 fa-5x"

                    >

                        <g class="fa-group">

                            <path

                                fill="currentColor"

                                d="M224 273L88.37 409a23.78 23.78 0 0 1-33.8 0L32 386.36a23.94 23.94 0 0 1 0-33.89l96.13-96.37L32 159.73a23.94 23.94 0 0 1 0-33.89l22.44-22.79a23.78 23.78 0 0 1 33.8 0L223.88 239a23.94 23.94 0 0 1 .1 34z"

                                class="fa-secondary"

                            ></path>

                            <path

                                fill="currentColor"

                                d="M415.89 273L280.34 409a23.77 23.77 0 0 1-33.79 0L224 386.26a23.94 23.94 0 0 1 0-33.89L320.11 256l-96-96.47a23.94 23.94 0 0 1 0-33.89l22.52-22.59a23.77 23.77 0 0 1 33.79 0L416 239a24 24 0 0 1-.11 34z"

                                class="fa-primary"

                            ></path>

                        </g>

                    </svg>

                </a>

            </li>

            <li class="nav-item">

                <a href="#" class="nav-link" onclick="toggleSubmenu('graphSubmenu')">

                    <svg aria-hidden="true" focusable="false" data-prefix="fad" data-icon="graph\_select" role="img" style="enable-background:new 0 0 32 32;" viewBox="0 0 32 32" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" class="svg-inline--fa fa-upload fa-w-16 fa-7x">

                        <style type="text/css">

                            .st0{clip-path:url(#SVGID\_2\_);}

                            .st1{clip-path:url(#SVGID\_4\_);}

                        </style>

                        <g>

                            <g>

                                <path fill="currentColor" class="fa-primary" d="M16,28c-0.5527344,0-1-0.4472656-1-1V5c0-0.5522461,0.4472656-1,1-1s1,0.4477539,1,1v22C17,27.5527344,16.5527344,28,16,28z"/>

                            </g>

                            <g>

                                <path fill="currentColor" class="fa-secondary" d="M11.6669922,26c-0.5527344,0-1-0.4472656-1-1V7c0-0.5522461,0.4472656-1,1-1s1,0.4477539,1,1v18C12.6669922,25.5527344,12.2197266,26,11.6669922,26z"/>

                            </g>

                            <g>

                                <g>

                                    <defs>

                                        <line id="SVGID\_1\_" x1="7.3333335" x2="7.3333335" y1="9" y2="23"/>

                                    </defs>

                                    <use style="overflow:visible;" xlink:href="#SVGID\_1\_"/>

                                    <clipPath id="SVGID\_2\_">

                                        <use style="overflow:visible;" xlink:href="#SVGID\_1\_"/>

                                    </clipPath>

                                </g>

                                <path fill="currentColor" class="fa-primary" d="M7.3330078,24c-0.5527344,0-1-0.4472656-1-1V9c0-0.5522461,0.4472656-1,1-1s1,0.4477539,1,1v14C8.3330078,23.5527344,7.8857422,24,7.3330078,24z"/>

                            </g>

                            <g>

                                <path fill="currentColor" class="fa-secondary" d="M3,21c-0.5527344,0-1-0.4472656-1-1v-8c0-0.5522461,0.4472656-1,1-1s1,0.4477539,1,1v8C4,20.5527344,3.5527344,21,3,21z"/>

                            </g>

                            <g>

                                <path fill="currentColor" class="fa-secondary" d="M29,21c-0.5527344,0-1-0.4472656-1-1v-8c0-0.5522461,0.4472656-1,1-1s1,0.4477539,1,1v8C30,20.5527344,29.5527344,21,29,21z"/>

                            </g>

                            <g>

                                <g>

                                    <defs>

                                        <line id="SVGID\_3\_" x1="24.666666" x2="24.666666" y1="9" y2="23"/>

                                    </defs>

                                    <use style="overflow:visible;" xlink:href="#SVGID\_3\_"/>

                                    <clipPath id="SVGID\_4\_">

                                        <use style="overflow:visible;" xlink:href="#SVGID\_3\_"/>

                                    </clipPath>

                                </g>

                                <path fill="currentColor" class="fa-primary" d="M24.6669922,24c-0.5527344,0-1-0.4472656-1-1V9c0-0.5522461,0.4472656-1,1-1s1,0.4477539,1,1v14C25.6669922,23.5527344,25.2197266,24,24.6669922,24z"/>

                            </g>

                            <g>

                                <path fill="currentColor" class="fa-secondary" d="M20.3330078,26c-0.5527344,0-1-0.4472656-1-1V7c0-0.5522461,0.4472656-1,1-1s1,0.4477539,1,1v18C21.3330078,25.5527344,20.8857422,26,20.3330078,26z"/>

                            </g>

                        </g>

                    </svg>

                    <span class="link-text">Select Graph</span>

                </a>

                <div id="graphSubmenu" class="submenu">

                    <!-- Thumbnails for graphs will be dynamically populated -->

                </div>

            </li>

            <li class="nav-item">

                <a href="#" class="nav-link" onclick="toggleSubmenu('uploadSubmenu')">

                    <svg aria-hidden="true" focusable="false" data-prefix="fad" data-icon="upload" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 29 29" style="fill-rule:evenodd;clip-rule:evenodd;stroke-linejoin:round;stroke-miterlimit:2;" class="svg-inline--fa fa-upload fa-w-16 fa-7x"><path fill="currentColor" d="M27.964,23.272c-0.116,0.424 -0.504,0.735 -0.964,0.735l-0.996,-0l-0,0.99c-0,0.552 -0.448,1 -1,1c-0.552,-0 -1,-0.448 -1,-1l-0,-0.99l-1.004,-0c-0.552,-0 -1,-0.448 -1,-1c0,-0.552 0.448,-1 1,-1l1.004,-0l-0,-1.007c-0,-0.552 0.448,-1 1,-1c0.552,0 1,0.448 1,1l-0,1.007l0.996,-0c0.462,-0 0.851,0.314 0.966,0.74l0.043,-15.552c-0,-1.769 -1.435,-3.203 -3.204,-3.203l-17.614,0c-1.77,0 -3.204,1.434 -3.204,3.203l0,17.603c0,1.768 1.434,3.202 3.204,3.202l17.775,-0.037c1.651,-0.003 2.989,-1.34 2.994,-2.991l0.004,-1.7Zm-15.967,-5.279l-0.002,-0c-1.104,-0 -2.001,0.897 -2.001,2.001c-0,1.105 0.897,2.002 2.001,2.002c1.105,0 2.002,-0.897 2.002,-2.002l0,-7.122c0,-0 6.001,-0.75 6.001,-0.75l0.003,3.867c-1.105,0 -2.002,0.897 -2.002,2.002c-0,1.105 0.897,2.002 2.002,2.002c1.104,-0 2.001,-0.897 2.001,-2.002l-0.005,-7.003c-0,-0.286 -0.123,-0.559 -0.338,-0.749c-0.215,-0.189 -0.501,-0.278 -0.786,-0.242l-8,1c-0.5,0.062 -0.876,0.488 -0.876,0.992l0,6.004Z" class="fa-primary"></path></svg>

                    <span class="link-text">Upload Music</span>

                </a>

                <div id="uploadSubmenu" class="submenu">

                    <input type="file" id="fileInput" accept="audio/mp3" multiple>

                </div>

            </li>

            <li class="nav-item">

                <a href="#" class="nav-link" onclick="connectToSpotify()">

                    <svg aria-hidden="true" focusable="false" data-prefix="fab" data-icon="spotify" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 496 512" class="svg-inline--fa fa-spotify fa-w-16 fa-5x">

                        <path fill="#00DA5A" d="M248 8C111 8 0 119 0 256s111 248 248 248 248-111 248-248S385 8 248 8zm113.5 356.8c-4.1 5.9-11.5 7.8-17.6 3.7-48.7-32.1-110-39.4-183-23.1-6.8 1.5-13.3-2.7-14.8-9.4-1.5-6.7 2.7-13.3 9.4-14.8 80.3-17.7 148.5-9.1 203.7 26.1 5.9 3.9 7.8 11.5 3.7 17.5zm23.6-56.2c-5 6.9-14.5 8.8-21.5 3.8-55.8-36.7-141-47.3-207.6-27.8-8 2.3-16.4-2.3-18.7-10.3-2.3-8 2.3-16.4 10.3-18.7 76.3-21.5 170.5-9.5 232.7 31.5 6.9 5 8.7 14.5 3.8 21.5zm-5.6-63.5C313 201.1 181.3 197.3 103.5 222c-9.3 3-19.1-2.2-22.1-11.5-3-9.3 2.2-19.1 11.5-22.1 87.6-28.7 238.1-24.8 328.7 35.3 8.1 5.3 10.4 16.3 5.1 24.4-5.3 8.2-16.3 10.4-24.4 5.1z"></path>

                      </svg>

                    <span class="link-text">Connect to Spotify</span>

                </a>

            </li>

            <li class="nav-item">

                <a href="#" class="nav-link" onclick="toggleSubmenu('youtubeSubmenu')">

                    <svg aria-hidden="true" focusable="false" width="80px" height="80px" viewBox="2.5 0 95 95" xmlns="http://www.w3.org/2000/svg" class="svg-inline--fa fa-youtube fa-w-16 fa-5x">

                        <style type="text/css">

                            .st0{fill:#FFFFFF;}

                            .st1{fill:#F5BB41;}

                            .st2{fill:#2167D1;}

                            .st3{fill:#3D84F3;}

                            .st4{fill:#4CA853;}

                            .st5{fill:#398039;}

                            .st6{fill:#D74F3F;}

                            .st7{fill:#D43C89;}

                            .st8{fill:#B2005F;}

                            .st9{fill:none;stroke:#000000;stroke-width:3;stroke-linecap:round;stroke-linejoin:round;stroke-miterlimit:10;}

                            .st10{fill-rule:evenodd;clip-rule:evenodd;fill:none;stroke:#000000;stroke-width:3;stroke-linecap:round;stroke-linejoin:round;stroke-miterlimit:10;}

                            .st11{fill-rule:evenodd;clip-rule:evenodd;fill:none;stroke:#040404;stroke-width:3;stroke-linecap:round;stroke-linejoin:round;stroke-miterlimit:10;}

                            .st12{fill-rule:evenodd;clip-rule:evenodd;}

                            .st13{fill-rule:evenodd;clip-rule:evenodd;fill:#040404;}

                            .st14{fill:url(#SVGID\_1\_);}

                            .st15{fill:url(#SVGID\_2\_);}

                            .st16{fill:url(#SVGID\_3\_);}

                            .st17{fill:url(#SVGID\_4\_);}

                            .st18{fill:url(#SVGID\_5\_);}

                            .st19{fill:url(#SVGID\_6\_);}

                            .st20{fill:url(#SVGID\_7\_);}

                            .st21{fill:url(#SVGID\_8\_);}

                            .st22{fill:url(#SVGID\_9\_);}

                            .st23{fill:url(#SVGID\_10\_);}

                            .st24{fill:url(#SVGID\_11\_);}

                            .st25{fill:url(#SVGID\_12\_);}

                            .st26{fill:url(#SVGID\_13\_);}

                            .st27{fill:url(#SVGID\_14\_);}

                            .st28{fill:url(#SVGID\_15\_);}

                            .st29{fill:url(#SVGID\_16\_);}

                            .st30{fill:url(#SVGID\_17\_);}

                            .st31{fill:url(#SVGID\_18\_);}

                            .st32{fill:url(#SVGID\_19\_);}

                            .st33{fill:url(#SVGID\_20\_);}

                            .st34{fill:url(#SVGID\_21\_);}

                            .st35{fill:url(#SVGID\_22\_);}

                            .st36{fill:url(#SVGID\_23\_);}

                            .st37{fill:url(#SVGID\_24\_);}

                            .st38{fill:url(#SVGID\_25\_);}

                            .st39{fill:url(#SVGID\_26\_);}

                            .st40{fill:url(#SVGID\_27\_);}

                            .st41{fill:url(#SVGID\_28\_);}

                            .st42{fill:url(#SVGID\_29\_);}

                            .st43{fill:url(#SVGID\_30\_);}

                            .st44{fill:url(#SVGID\_31\_);}

                            .st45{fill:url(#SVGID\_32\_);}

                            .st46{fill:url(#SVGID\_33\_);}

                            .st47{fill:url(#SVGID\_34\_);}

                            .st48{fill:url(#SVGID\_35\_);}

                            .st49{fill:url(#SVGID\_36\_);}

                            .st50{fill:url(#SVGID\_37\_);}

                            .st51{fill:url(#SVGID\_38\_);}

                            .st52{fill:url(#SVGID\_39\_);}

                            .st53{fill:url(#SVGID\_40\_);}

                            .st54{fill:url(#SVGID\_41\_);}

                            .st55{fill:url(#SVGID\_42\_);}

                            .st56{fill:url(#SVGID\_43\_);}

                            .st57{fill:url(#SVGID\_44\_);}

                            .st58{fill:url(#SVGID\_45\_);}

                            .st59{fill:#040404;}

                            .st60{fill:url(#SVGID\_46\_);}

                            .st61{fill:url(#SVGID\_47\_);}

                            .st62{fill:url(#SVGID\_48\_);}

                            .st63{fill:url(#SVGID\_49\_);}

                            .st64{fill:url(#SVGID\_50\_);}

                            .st65{fill:url(#SVGID\_51\_);}

                            .st66{fill:url(#SVGID\_52\_);}

                            .st67{fill:url(#SVGID\_53\_);}

                            .st68{fill:url(#SVGID\_54\_);}

                            .st69{fill:url(#SVGID\_55\_);}

                            .st70{fill:url(#SVGID\_56\_);}

                            .st71{fill:url(#SVGID\_57\_);}

                            .st72{fill:url(#SVGID\_58\_);}

                            .st73{fill:url(#SVGID\_59\_);}

                            .st74{fill:url(#SVGID\_60\_);}

                            .st75{fill:url(#SVGID\_61\_);}

                            .st76{fill:url(#SVGID\_62\_);}

                            .st77{fill:none;stroke:#000000;stroke-width:3;stroke-miterlimit:10;}

                            .st78{fill:none;stroke:#FFFFFF;stroke-miterlimit:10;}

                            .st79{fill:#4BC9FF;}

                            .st80{fill:#5500DD;}

                            .st81{fill:#FF3A00;}

                            .st82{fill:#E6162D;}

                            .st83{fill:#F1F1F1;}

                            .st84{fill:#FF9933;}

                            .st85{fill:#B92B27;}

                            .st86{fill:#00ACED;}

                            .st87{fill:#BD2125;}

                            .st88{fill:#1877F2;}

                            .st89{fill:#6665D2;}

                            .st90{fill:#CE3056;}

                            .st91{fill:#5BB381;}

                            .st92{fill:#61C3EC;}

                            .st93{fill:#E4B34B;}

                            .st94{fill:#181EF2;}

                            .st95{fill:#FF0000;}

                            .st96{fill:#FE466C;}

                            .st97{fill:#FA4778;}

                            .st98{fill:#FF7700;}

                            .st99{fill-rule:evenodd;clip-rule:evenodd;fill:#1F6BF6;}

                            .st100{fill:#520094;}

                            .st101{fill:#4477E8;}

                            .st102{fill:#3D1D1C;}

                            .st103{fill:#FFE812;}

                            .st104{fill:#344356;}

                            .st105{fill:#00CC76;}

                            .st106{fill-rule:evenodd;clip-rule:evenodd;fill:#345E90;}

                            .st107{fill:#1F65D8;}

                            .st108{fill:#EB3587;}

                            .st109{fill-rule:evenodd;clip-rule:evenodd;fill:#603A88;}

                            .st110{fill:#E3CE99;}

                            .st111{fill:#783AF9;}

                            .st112{fill:#FF515E;}

                            .st113{fill:#FF4906;}

                            .st114{fill:#503227;}

                            .st115{fill:#4C7BD9;}

                            .st116{fill:#69C9D0;}

                            .st117{fill:#1B92D1;}

                            .st118{fill:#EB4F4A;}

                            .st119{fill:#513728;}

                            .st120{fill:#FF6600;}

                            .st121{fill-rule:evenodd;clip-rule:evenodd;fill:#B61438;}

                            .st122{fill:#FFFC00;}

                            .st123{fill:#141414;}

                            .st124{fill:#94D137;}

                            .st125{fill-rule:evenodd;clip-rule:evenodd;fill:#F1F1F1;}

                            .st126{fill-rule:evenodd;clip-rule:evenodd;fill:#66E066;}

                            .st127{fill:#2D8CFF;}

                            .st128{fill:#F1A300;}

                            .st129{fill:#4BA2F2;}

                            .st130{fill:#1A5099;}

                            .st131{fill:#EE6060;}

                            .st132{fill-rule:evenodd;clip-rule:evenodd;fill:#F48120;}

                            .st133{fill:#222222;}

                            .st134{fill:url(#SVGID\_63\_);}

                            .st135{fill:#0077B5;}

                            .st136{fill:#FFCC00;}

                            .st137{fill:#EB3352;}

                            .st138{fill:#F9D265;}

                            .st139{fill:#F5B955;}

                            .st140{fill:#DD2A7B;}

                            .st141{fill:#66E066;}

                            .st142{fill:#EB4E00;}

                            .st143{fill:#FFC794;}

                            .st144{fill:#B5332A;}

                            .st145{fill:#4E85EB;}

                            .st146{fill:#58A45C;}

                            .st147{fill:#F2BC42;}

                            .st148{fill:#D85040;}

                            .st149{fill:#464EB8;}

                            .st150{fill:#7B83EB;}

                        </style>

                        <g id="Layer\_1"/>

                        <g id="Layer\_2">

                            <g>

                                <g>

                                    <g>

                                        <path class="st95" d="M50,2.5C23.766,2.5,2.5,23.823,2.5,50.126c2.502,63.175,92.507,63.157,95-0.001 C97.5,23.823,76.233,2.5,50,2.5z M50,77.399c-15.036,0-27.27-12.233-27.27-27.27c0.74-18.662,14.654-27.134,27.269-27.134 c0.001,0,0.001,0,0.002,0c12.616,0.001,26.531,8.473,27.267,27.073C77.27,65.167,65.036,77.399,50,77.399z"/>

                                        <path class="st95" d="M50.002,26.103c-15.946-0.001-23.704,12.486-24.165,24.088C25.838,63.453,36.677,74.292,50,74.292 S74.162,63.453,74.162,50.13C73.705,38.591,65.948,26.105,50.002,26.103z"/>

                                    </g>

                                    <path class="st83" d="M41.055,52.528c-0.001,2.575,0.001,7.867,0,10.46c0,0,21.802-13.417,21.802-13.417L41.055,37.272V52.528z"/>

                                </g>

                            </g>

                        </g>

                    </svg>

                    <span class="link-text">Play YouTube Playlist</span>

                </a>

                <div id="youtubeSubmenu" class="submenu">

                    <input type="text" id="youtubeLinkInput" placeholder = "Enter YouTube Music/Video/Playlist Link">

                    <button onclick ="addYoutubeLink()">Add Link</button>

            </li>

            <li class="nav-item" id="themeButton">

                <a href="#" class="nav-link">

                    <svg class="theme-icon" id="lightIcon" aria-hidden="true" focusable="false" data-prefix="fad" data-icon="moon-stars" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512" class="svg-inline--fa fa-moon-stars fa-w-16 fa-7x"><path fill="currentColor" d="M320 32L304 0l-16 32-32 16 32 16 16 32 16-32 32-16zm138.7 149.3L432 128l-26.7 53.3L352 208l53.3 26.7L432 288l26.7-53.3L512 208z" class="fa-secondary"></path><path fill="currentColor" d="M332.2 426.4c8.1-1.6 13.9 8 8.6 14.5a191.18 191.18 0 0 1-149 71.1C85.8 512 0 426 0 320c0-120 108.7-210.6 227-188.8 8.2 1.6 10.1 12.6 2.8 16.7a150.3 150.3 0 0 0-76.1 130.8c0 94 85.4 165.4 178.5 147.7z" class="fa-primary"></path></svg>

                    <svg class="theme-icon" id="solarIcon" aria-hidden="true" focusable="false" data-prefix="fad" data-icon="sun" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512" class="svg-inline--fa fa-sun fa-w-16 fa-7x"><path fill="currentColor" d="M502.42 240.5l-94.7-47.3 33.5-100.4c4.5-13.6-8.4-26.5-21.9-21.9l-100.4 33.5-47.41-94.8a17.31 17.31 0 0 0-31 0l-47.3 94.7L92.7 70.8c-13.6-4.5-26.5 8.4-21.9 21.9l33.5 100.4-94.7 47.4a17.31 17.31 0 0 0 0 31l94.7 47.3-33.5 100.5c-4.5 13.6 8.4 26.5 21.9 21.9l100.41-33.5 47.3 94.7a17.31 17.31 0 0 0 31 0l47.31-94.7 100.4 33.5c13.6 4.5 26.5-8.4 21.9-21.9l-33.5-100.4 94.7-47.3a17.33 17.33 0 0 0 .2-31.1zm-155.9 106c-49.91 49.9-131.11 49.9-181 0a128.13 128.13 0 0 1 0-181c49.9-49.9 131.1-49.9 181 0a128.13 128.13 0 0 1 0 181z" class="fa-secondary"></path><path fill="currentColor" d="M352 256a96 96 0 1 1-96-96 96.15 96.15 0 0 1 96 96z" class="fa-primary"></path></svg>

                    <svg class="theme-icon" id="darkIcon" aria-hidden="true" focusable="false" data-prefix="fad" data-icon="sunglasses" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 576 512" class="svg-inline--fa fa-sunglasses fa-w-18 fa-7x"><path fill="currentColor" d="M574.09 280.38L528.75 98.66a87.94 87.94 0 0 0-113.19-62.14l-15.25 5.08a16 16 0 0 0-10.12 20.25L395.25 77a16 16 0 0 0 20.22 10.13l13.19-4.39c10.87-3.63 23-3.57 33.15 1.73a39.59 39.59 0 0 1 20.38 25.81l38.47 153.83a276.7 276.7 0 0 0-81.22-12.47c-34.75 0-74 7-114.85 26.75h-73.18c-40.85-19.75-80.07-26.75-114.85-26.75a276.75 276.75 0 0 0-81.22 12.45l38.47-153.8a39.61 39.61 0 0 1 20.38-25.82c10.15-5.29 22.28-5.34 33.15-1.73l13.16 4.39A16 16 0 0 0 180.75 77l5.06-15.19a16 16 0 0 0-10.12-20.21l-15.25-5.08A87.95 87.95 0 0 0 47.25 98.65L1.91 280.38A75.35 75.35 0 0 0 0 295.86v70.25C0 429 51.59 480 115.19 480h37.12c60.28 0 110.38-45.94 114.88-105.37l2.93-38.63h35.76l2.93 38.63c4.5 59.43 54.6 105.37 114.88 105.37h37.12C524.41 480 576 429 576 366.13v-70.25a62.67 62.67 0 0 0-1.91-15.5zM203.38 369.8c-2 25.9-24.41 46.2-51.07 46.2h-37.12C87 416 64 393.63 64 366.11v-37.55a217.35 217.35 0 0 1 72.59-12.9 196.51 196.51 0 0 1 69.91 12.9zM512 366.13c0 27.5-23 49.87-51.19 49.87h-37.12c-26.69 0-49.1-20.3-51.07-46.2l-3.12-41.24a196.55 196.55 0 0 1 69.94-12.9A217.41 217.41 0 0 1 512 328.58z" class="fa-secondary"></path><path fill="currentColor" d="M64.19 367.9c0-.61-.19-1.18-.19-1.8 0 27.53 23 49.9 51.19 49.9h37.12c26.66 0 49.1-20.3 51.07-46.2l3.12-41.24c-14-5.29-28.31-8.38-42.78-10.42zm404-50l-95.83 47.91.3 4c2 25.9 24.38 46.2 51.07 46.2h37.12C489 416 512 393.63 512 366.13v-37.55a227.76 227.76 0 0 0-43.85-10.66z" class="fa-primary"></path></svg>

                    <span class="link-text">Theme</span>

                </a>

            </li>

        </ul>

    </nav>

    <main id="mainContent">

        <div id="plotArea" class="flex-container">

            <div id="plotContainer" class="flex-item plot">

                <div id="controlOverlay" class="flex-container">

                    <div class="controls">

                        <button id="loopBtn">Loop</button>

                    </div>

                </div>

                <div id="plot"></div>

                <div id="controlOverlay" class="flex-container">

                    <div class="controls">

                        <button id="playPauseBtn">Play</button>

                    </div>

                </div>

            </div>

        </div>

        <div id="graphDescriptionContainer" class="flex-item description">

            <div id="graphDescription"></div>

        </div>

        <div id="pageDescription" class="flex-item description">

            <h2>About This Website</h2>

            <p>This website is a volume modulator...</p>

            <a href="https://github.com/username/repo">GitHub Repository</a>

            <a href="license.md">License</a>

        </div>

        <div id="companyInfo" class="flex-item description">

            <p>Company Information and Logo Animation</p>

            <div id="logoAnimation"></div>

            <div id="version">Version: 0.8.1</div>

        </div>

        <audio id="audio" preload="auto"></audio>

        <div id="player" style="display: none;"></div>

    </main>

    <script src="script.js"></script>

</body>

</html>

.

style.css: :root {

    font-size: 16px;

    font-family: 'Open Sans', sans-serif;

    --text-primary: #b6b6b6;

    --text-secondary: #ececec;

    --bg-primary: #23232e;

    --bg-secondary: #141418;

    --transition-speed: 600ms;

    --grey-light: #ececec;

    --grey-dark: #b6b6b6;

    --grey-darker: #232323;

}

body {

    color: var(--text-primary);

    background-color: var(--bg-secondary);

    margin: 0;

    padding: 0;

    overflow-x: hidden;

}

body::-webkit-scrollbar {

    width: 0.25rem;

}

body::-webkit-scrollbar-track {

    background: #1e1e24;

}

body::-webkit-scrollbar-thumb {

    background: #6649b8;

}

main {

    margin-left: 5rem;

    padding: 1rem;

    display: flex;

    flex-direction: column;

    justify-content: flex-start;

    align-items: center;

    min-height: 100vh;

    position: relative;

}

.navbar {

    position: fixed;

    background-color: var(--bg-primary);

    overflow: hidden;

}

.navbar-nav {

    list-style: none;

    padding: 0;

    margin: 0;

    display: flex;

    flex-direction: column;

    align-items: center;

    height: 100%;

}

.nav-item {

    width: 100%;

}

.nav-item:last-child {

    margin-top: auto;

}

.nav-link {

    display: flex;

    align-items: center;

    height: 5rem;

    color: var(--text-primary);

    text-decoration: none;

    filter: grayscale(100%) opacity(0.7);

    transition: var(--transition-speed);

}

.nav-link:hover {

    filter: grayscale(0%) opacity(1);

    background: var(--bg-secondary);

    color: var(--text-secondary);

}

.link-text {

    display: none;

    margin-left: 1rem;

}

.nav-link svg {

    width: 2rem;

    min-width: 2rem;

    margin: 0 1.5rem;

}

.nav-link .svg-inline--fa path {

    transition: fill var(--transition-speed);

}

.fa-primary {

    color: #ff7eee;

}

.fa-secondary {

    color: #df49a6;

}

.fa-primary,

.fa-secondary {

    transition: var(--transition-speed);

}

.logo {

    font-weight: bold;

    text-transform: uppercase;

    margin-bottom: 1rem;

    text-align: center;

    color: var(--text-secondary);

    background: var(--bg-secondary);

    font-size: 1.5rem;

    letter-spacing: 0.3ch;

    width: 100%;

    display: flex;

    justify-content: center;

    align-items: center;

    transition: var(--transition-speed);

}

.logo svg {

    transform: rotate(0deg);

    transition: var(--transition-speed);

}

.logo-text {

    display: inline;

    position: absolute;

    left: -999px;

    transition: var(--transition-speed);

}

.navbar.active {

    width: 16rem;

}

.navbar.active .link-text {

    display: inline;

}

.navbar.active .logo svg {

    margin-left: 15rem;

    transform: rotate(180deg);

}

.navbar.active .logo-text {

    left: 15px;

}

.submenu {

    display: none;

    flex-direction: column;

    padding: 10px;

    background-color: var(--bg-secondary);

    overflow-y: auto;

    max-height: 200px;

}

.submenu::-webkit-scrollbar {

    width: 0.5rem;

}

.submenu::-webkit-scrollbar-track {

    background: #1e1e24;

}

.submenu::-webkit-scrollbar-thumb {

    background: #6649b8;

}

.submenu input {

    margin-top: 10px;

}

.thumbnail {

    display: flex;

    flex-direction: column;

    align-items: center;

    margin-bottom: 10px;

}

.thumbnail img {

    width: 50px;

    height: 50px;

}

.thumbnail-label {

    margin-top: 5px;

    color: var(--text-primary);

}

#graphSubmenu {

    max-height: 300px;

    overflow-y: auto;

}

@media only screen and (max-width: 600px) {

    .navbar {

        bottom: 0;

        width: 100vw;

        height: 5rem;

    }

    .logo {

        display: none;

    }

    .navbar-nav {

        flex-direction: row;

    }

    .nav-link {

        justify-content: center;

    }

    main {

        margin: 0;

    }

}

@media only screen and (min-width: 600px) {

    .navbar {

        top: 0;

        width: 5rem;

        height: 100vh;

    }

    .navbar.active {

        width: 16rem;

    }

}

.solar {

    --text-primary: #b6b6b6;

    --text-secondary: #ececec;

    --bg-primary: #23232e;

    --bg-secondary: #141418;

}

.light {

    --text-primary: #1f1f1f;

    --text-secondary: #000000;

    --bg-primary: #ffffff;

    --bg-secondary: #e4e4e4;

}

.dark {

    --text-primary: #576e75;

    --text-secondary: #35535c;

    --bg-primary: #fdf6e3;

    --bg-secondary: #f5e5b8;

}

.theme-icon {

    display: none;

}

.dark #darkIcon {

    display: block;

}

.light #lightIcon {

    display: block;

}

.solar #solarIcon {

    display: block;

}

.flex-container {

    display: flex;

    justify-content: center;

    align-items: center;

    margin-top: 10px;

    width: 100%;

}

.flex-item {

    margin: 10px;

    padding: 10px;

    background-color: var(--bg-secondary);

    border-radius: 5px;

    width: 90%;

    max-width: 800px;

}

.plot {

    display: flex;

    justify-content: center;

    align-items: center;

    position: relative;

    width: 100%;

    height: 60vmin;

}

#plot \* {

    cursor: default;

}

.controls {

    display: flex;

    flex-direction: column;

    gap: 10px;

    pointer-events: auto;

    transition: transform 0.6s;

}

button {

    padding: 10px;

    background-color: #444;

    color: white;

    border: none;

    cursor: pointer;

    font-size: 1em;

    border-radius: 5px;

    transition: background-color 0.3s, transform 0.3s;

}

button:hover {

    background-color: #555;

    transform: scale(1.05);

}

#pageDescription {

    color: white;

    font-size: 1em;

    text-align: center;

}

#version {

    position: absolute;

    bottom: 10px;

    right: 10px;

    color: rgb(102, 102, 102);

    font-size: 0.8em;

    opacity: 0.8;

    z-index: 1;

}

#player {

    display: none;

}

#controlOverlay {

    position: flex;

    top: 60vmin;

    width: 100%;

    display: flex;

    justify-content: center;

    pointer-events: none;

}

#graphDescriptionContainer {

    color: white;

    text-align: center;

}

#companyInfo {

    color: white;

    font-size: 1em;

    text-align: center;

}

#logoAnimation {

    margin-top: 10px;

    height: 100px;

    width: 100px;

    background-color: #444;

    border-radius: 50%;

    animation: spin 4s linear infinite;

}

@keyframes spin {

    0% { transform: rotate(0deg); }

    100% { transform: rotate(360deg); }

}

.

Script.js: document.addEventListener('DOMContentLoaded', function() {

    const plotElement = document.getElementById('plot');

    const audioElement = document.getElementById('audio');

    const playPauseBtn = document.getElementById('playPauseBtn');

    const loopBtn = document.getElementById('loopBtn');

    const fileInput = document.getElementById('fileInput');

    const graphDescriptionContainer = document.getElementById('graphDescriptionContainer');

    const graphDescriptionElement = document.getElementById('graphDescription');

    const pageDescription = document.getElementById('pageDescription');

    const navbar = document.querySelector('.navbar');

    const graphSubmenu = document.getElementById('graphSubmenu');

    const logoLink = document.querySelector('.logo a');

    let selectedGraph = 'heart';

    let isMuted = false;

    let isPlaying = false;

    let isLooping = true;

    let a = 10;

    let musicFiles = [];

    let loopInterval;

    const loopSpeed = 100;

    /\* YouTube shenanigans \*/

    let player;

    let youtubeLinks = [];

    let currentVideoIndex = 0;

    /\* Graph shenanigans \*/

    const graphConfigs = {

        heart: {

            script: 'graphs/heart.js',

            description: 'graphs/description-heart.txt',

            thumbnail: 'assets/thumbnails/heart.png',

            sampleMusic: 'audio/heart.mp3'

        },

        graph2: {

            script: 'graphs/graph2.js',

            description: 'graphs/description-graph2.txt',

            thumbnail: 'assets/thumbnails/graph2.png',

            sampleMusic: 'audio/sample.mp3'

        }

    };

    function loadGraphScript(scriptUrl, callback) {

        const script = document.createElement('script');

        script.src = scriptUrl;

        script.onload = callback;

        document.head.appendChild(script);

    }

    function loadGraphDescription(descriptionUrl) {

        fetch(descriptionUrl)

            .then(response => response.text())

            .then(text => {

                graphDescriptionElement.innerText = text;

            });

    }

    function plotCurrentGraph(angleModifier = 0) {

        loadGraphScript(graphConfigs[selectedGraph].script, function() {

            plotGraph(angleModifier, plotElement, isMuted, a);

        });

        loadGraphDescription(graphConfigs[selectedGraph].description);

    }

    function selectGraph(graph) {

        selectedGraph = graph;

        plotCurrentGraph();

        setSampleMusic();

        closeSubmenus();

    }

    function setSampleMusic() {

        const graph = graphConfigs[selectedGraph];

        if (graph.sampleMusic) {

            audioElement.src = graph.sampleMusic;

        }

    }

    function toggleMute() {

        isMuted = !isMuted;

        audioElement.muted = isMuted;

        plotCurrentGraph();

        if (isMuted) {

            showMuteOverlay();

        } else {

            removeMuteOverlay();

        }

    }

    function showMuteOverlay() {

        const overlay = document.createElement('div');

        overlay.className = 'mute-overlay';

        plotElement.appendChild(overlay);

    }

    function removeMuteOverlay() {

        const overlay = plotElement.querySelector('.mute-overlay');

        if (overlay) {

            plotElement.removeChild(overlay);

        }

    }

    function uploadMusic(event) {

        musicFiles = Array.from(event.target.files);

        if (musicFiles.length > 0) {

            setMusicSource(0);

        }

    }

    function setMusicSource(index) {

        if (index >= 0 && index < musicFiles.length) {

            const file = musicFiles[index];

            const reader = new FileReader();

            reader.onload = function(e) {

                audioElement.src = e.target.result;

            };

            reader.readAsDataURL(file);

        }

    }

    function connectToSpotify() {

        alert("Connect to Spotify feature coming soon!");

    }

    function startLoop() {

        let angle = 0;

        clearInterval(loopInterval);

        loopInterval = setInterval(() => {

            angle += Math.PI / 100;

            if (angle > Math.PI) angle = -Math.PI;

            plotCurrentGraph(angle);

        }, loopSpeed);

    }

    function stopLoop() {

        clearInterval(loopInterval);

        plotCurrentGraph();

    }

    function toggleLoop() {

        isLooping = !isLooping;

        if (isLooping) {

            loopBtn.classList.add('active');

            startLoop();

        } else {

            loopBtn.classList.remove('active');

            stopLoop();

        }

    }

    function closeSubmenus() {

        const submenus = document.querySelectorAll('.submenu');

        submenus.forEach(submenu => {

            submenu.style.display = 'none';

        });

    }

    plotElement.addEventListener('click', toggleMute);

    loopBtn.addEventListener('click', toggleLoop);

    playPauseBtn.addEventListener('click', function() {

        isPlaying = !isPlaying;

        if (isPlaying) {

            audioElement.play();

            playPauseBtn.textContent = 'Pause';

            if (isLooping) {

                startLoop();

            }

        } else {

            audioElement.pause();

            playPauseBtn.textContent = 'Play';

            stopLoop();

        }

    });

    function handleStart(event) {

        const initialA = a;

        const initialMouseX = event.clientX || event.touches[0].clientX;

        const initialMouseY = event.clientY || event.touches[0].clientY;

        function onMove(event) {

            const clientX = event.clientX || event.touches[0].clientX;

            const clientY = event.clientY || event.touches[0].clientY;

            const deltaX = clientX - initialMouseX;

            const deltaY = clientY - initialMouseY;

            a = Math.min(30, Math.max(0, initialA + deltaX / 10 - deltaY / 10));

            audioElement.volume = a / 30;

            plotCurrentGraph();

            if (a === 0 && !isMuted) {

                toggleMute();

            } else if (a > 0 && isMuted) {

                toggleMute();

            }

        }

        function onEnd() {

            document.removeEventListener('mousemove', onMove);

            document.removeEventListener('mouseup', onEnd);

            document.removeEventListener('touchmove', onMove);

            document.removeEventListener('touchend', onEnd);

        }

        document.addEventListener('mousemove', onMove);

        document.addEventListener('mouseup', onEnd);

        document.addEventListener('touchmove', onMove);

        document.addEventListener('touchend', onEnd);

    }

    plotElement.addEventListener('mousedown', handleStart);

    plotElement.addEventListener('touchstart', handleStart);

    audioElement.muted = false;

    audioElement.volume = a / 30;

    for (const [graphName, config] of Object.entries(graphConfigs)) {

        const thumbnailDiv = document.createElement('div');

        thumbnailDiv.className = 'thumbnail';

        thumbnailDiv.onclick = () => selectGraph(graphName);

        const img = document.createElement('img');

        img.src = config.thumbnail;

        img.alt = `${graphName} Graph`;

        const label = document.createElement('div');

        label.className = 'thumbnail-label';

        label.textContent = graphName.charAt(0).toUpperCase() + graphName.slice(1);

        thumbnailDiv.appendChild(img);

        thumbnailDiv.appendChild(label);

        graphSubmenu.appendChild(thumbnailDiv);

    }

    fileInput.addEventListener('change', uploadMusic);

    plotCurrentGraph();

    setSampleMusic();

    logoLink.addEventListener('click', function() {

        if (navbar.classList.contains('active')) {

            navbar.classList.remove('active');

            closeSubmenus();

        } else {

            navbar.classList.add('active');

        }

    });

    document.addEventListener('click', function(event) {

        const isClickInside = navbar.contains(event.target) || logoLink.contains(event.target);

        if (!isClickInside) {

            navbar.classList.remove('active');

            closeSubmenus();

        }

    });

    document.querySelectorAll('.nav-link').forEach(item => {

        item.addEventListener('click', function() {

            navbar.classList.add('active');

        });

    });

    window.addEventListener('resize', function() {

        const plotContainerRect = document.getElementById('plotContainer').getBoundingClientRect();

        const controlOverlay = document.getElementById('controlOverlay');

        controlOverlay.style.top = `${plotContainerRect.bottom}px`;

    });

    window.dispatchEvent(new Event('resize'));

    document.getElementById('youtubeLinkInput').addEventListener('keypress', function(event) {

        if (event.key === 'Enter') {

            addYouTubeLink();

        }

    });

});

function toggleSubmenu(id) {

    const submenu = document.getElementById(id);

    submenu.style.display = submenu.style.display === 'none' ? 'flex' : 'none';

}

function closeSubmenus() {

    const submenus = document.querySelectorAll('.submenu');

    submenus.forEach(submenu => {

        submenu.style.display = 'none';

    });

}

function connectToSpotify() {

    alert("Connect to Spotify feature coming soon!");

}

// YouTube API code

function onYouTubeIframeAPIReady() {

    console.log('YouTube IFrame API is ready');

}

function addYouTubeLink() {

    const linkInput = document.getElementById('youtubeLinkInput').value;

    const videoId = parseYouTubeLink(linkInput);

    if (videoId) {

        youtubeLinks.push(videoId);

        if (!player) {

            loadYouTubePlayer(videoId);

        }

    } else {

        alert('Invalid YouTube link');

    }

}

function parseYouTubeLink(link) {

    const regex = /(?:https?:\/\/)?(?:www\.)?(?:youtube\.com\/(?:[^\/\n\s]+\/\S+\/|(?:v|e(?:mbed)?)\/|\S\*?[?&]v=)|youtu\.be\/)([a-zA-Z0-9\_-]{11})/;

    const match = link.match(regex);

    return match ? match[1] : null;

}

function loadYouTubePlayer(videoId) {

    player = new YT.Player('player', {

        height: '360',

        width: '640',

        videoId: videoId,

        playerVars: {

            'autoplay': 1,

            'controls': 0

        },

        events: {

            'onReady': onPlayerReady,

            'onStateChange': onPlayerStateChange

        }

    });

}

function onPlayerReady(event) {

    event.target.setVolume(a \* 3.33);

    event.target.playVideo();

}

function onPlayerStateChange(event) {

    if (event.data === YT.PlayerState.ENDED) {

        currentVideoIndex = (currentVideoIndex + 1) % youtubeLinks.length;

        player.loadVideoById(youtubeLinks[currentVideoIndex]);

    }

}

function addToPlaylist(videoId) {

    fetch(`https://www.googleapis.com/youtube/v3/videos?part=snippet&id=${videoId}&key=YOUR\_API\_KEY`)

        .then(response => response.json())

        .then(data => {

            const videoData = data.items[0];

            const thumbnail = videoData.snippet.thumbnails.default.url;

            const title = videoData.snippet.title;

            const playlistItem = document.createElement('div');

            playlistItem.className = 'playlist-item';

            playlistItem.innerHTML = `

                <img src="${thumbnail}" alt="${title}" class="playlist-thumbnail">

                <div class="playlist-info">

                    <div class="playlist-title">${title}</div>

                    <div class="playlist-status" id="status-${videoId}">Paused</div>

                </div>

                <div class="playlist-controls">

                    <button onclick="playVideo('${videoId}')">Play</button>

                    <button onclick="removeFromPlaylist('${videoId}')">Remove</button>

                </div>

            `;

            playlistElement.appendChild(playlistItem);

        });

}

window.playVideo = function(videoId) {

    player.loadVideoById(videoId);

    updatePlaylistStatus(videoId, 'Playing');

};

window.removeFromPlaylist = function(videoId) {

    youtubeLinks = youtubeLinks.filter(id => id !== videoId);

    document.getElementById(`item-${videoId}`).remove();

};

function updatePlaylistStatus(videoId, status) {

    const statusElement = document.getElementById(`status-${videoId}`);

    if (statusElement) {

        statusElement.textContent = status;

        statusElement.style.color = status === 'Playing' ? 'green' : 'yellow';

    }

}

.

Theme.js: const themeMap = {

    dark: "light",

    light: "solar",

    solar: "dark"

};

const theme = localStorage.getItem('theme')

    || (tmp = Object.keys(themeMap)[0],

        localStorage.setItem('theme', tmp),

        tmp);

const bodyClass = document.body.classList;

bodyClass.add(theme);

function toggleTheme() {

    const current = localStorage.getItem('theme');

    const next = themeMap[current];

    bodyClass.replace(current, next);

    localStorage.setItem('theme', next);

}

document.getElementById('themeButton').onclick = toggleTheme;

.

Heart.js:

function plotGraph(angleModifier, plotElement, isMuted, a) {

    const e = Math.E;

    const π = Math.PI;

    function calculateY(x, isPositive) {

        const angle = (isPositive ? π : -π) \* x + angleModifier;

        const y = Math.pow(Math.abs(x), 2 / 3) + (e / 3) \* Math.sqrt(π - Math.pow(x, 2)) \* Math.sin(a \* angle);

        return x === 0 ? 0 : y;

    }

    const xValues = [];

    const yValuesPositive = [];

    for (let x = -2; x <= 2; x += 0.01) {

        xValues.push(x);

        yValuesPositive.push(calculateY(x, true));

    }

    Plotly.newPlot(plotElement, [

        {

            x: xValues,

            y: yValuesPositive,

            type: 'scatter',

            mode: 'lines',

            line: { color: isMuted ? 'grey' : 'rgba(255, 99, 71, 0.6)', width: isMuted ? 1 : Math.max(1, 5 - (a / 6)) },

            hoverinfo: 'skip'

        }

    ], {

        xaxis: { range: [-2.3, 2.3], visible: false, scaleanchor: 'y', scaleratio: 1 },

        yaxis: { range: [-1.5, 2.5], visible: false },

        plot\_bgcolor: 'transparent',

        paper\_bgcolor: 'transparent',

        showlegend: false,

        margin: { l: 0, r: 0, t: 0, b: 0 },

        hovermode: false

    }, { displayModeBar: false });

}

.

Graph2.js:

function plotGraph(angleModifier, plotElement, isMuted, a) {

    const e = Math.E;

    const π = Math.PI;

    function calculateY(x, isPositive) {

        const y = Math.cbrt(Math.pow(x, 2)) + (π / 4) \* Math.cos(π \* x) + (1 / 5) \* Math.exp(-Math.pow(x, 2));

        return x === 0 ? 0 : y;

    }

    const xValues = [];

    const yValuesPositive = [];

    for (let x = -2; x <= 2; x += 0.01) {

        xValues.push(x);

        yValuesPositive.push(calculateY(x, true));

    }

    Plotly.newPlot(plotElement, [

        {

            x: xValues,

            y: yValuesPositive,

            type: 'scatter',

            mode: 'lines',

            line: { color: isMuted ? 'grey' : 'rgba(255, 99, 71, 0.6)', width: isMuted ? 1 : Math.max(1, 5 - (a / 6)) },

            hoverinfo: 'skip'

        }

    ], {

        xaxis: { range: [-2.3, 2.3], visible: false, scaleanchor: 'y', scaleratio: 1 },

        yaxis: { range: [-1.5, 2.5], visible: false },

        plot\_bgcolor: 'transparent',

        paper\_bgcolor: 'transparent',

        showlegend: false,

        margin: { l: 0, r: 0, t: 0, b: 0 },

        hovermode: false

    }, { displayModeBar: false });

}

. Please do not break any current functionalities, you have already removed some of the previous functionalities like the nav bar sliding and the default cursor regardless of where the cursor is ( I have fixed this one).