

Convert Your Shazam Playlist to YouTube Playlist

Listen to Your Shazam Discoveries for Free. Keywords:

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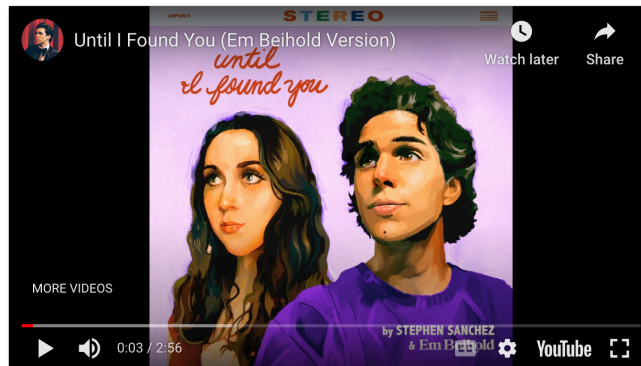
Convert Your Shazam Playlist to YouTube Playlist

Read details at [ToKnow.ai blog post](#).

Download the CSV of your playlist from <https://www.shazam.com/myshazam>.

Upload your Shazam Playlist CSV file.

Choose file shazamlibrary.csv



#	Title	Artist
1	Until I Found You (Em Beihold Version)	Stephen Sanchez & Em Beihold
2	Capitals of Europe: Nordic Region	Katrina Holland
3	Ven Ven	Lotus Beatz
4	Ava	Famy
5	Hero	Bryan Todd Feat. Ashley Argota
6	May On a Cross (Slowed + Reverb)	Kausak

Figure 1: Test the app below this page

Introduction

Have you ever found yourself in a situation where you've Shazamed a bunch of great songs, but can't listen to them without subscribing to a premium music service? Well, we've got great news for you! There's a free and easy way to enjoy your Shazam discoveries without breaking the bank. Let's dive into how you can convert your Shazam playlist to a YouTube playlist and start listening right away.

Enter the Shazam to YouTube Converter

We have developed a web application that takes your Shazam playlist and converts it into a YouTube playlist. This means you can listen to full versions of your discovered songs without paying for a subscription!

How It Works

The process is surprisingly simple:

1. **Export Your Shazam Library:** First, you'll need to export your Shazam library as a CSV file. You can do this by visiting <https://www.shazam.com/myshazam> and downloading your list of identified songs.
2. **Upload to the Converter:** Visit the [Shazam Playlist to YouTube Playlist converter](#). Here, you'll see an option to upload your CSV file.
3. **Watch the Magic Happen:** Once you upload your file, the application processes your Shazam list and creates a YouTube playlist on the fly.
4. **Start Listening:** A YouTube player will appear, ready to play through your entire list of songs. You can also see a table of all your tracks, allowing you to easily jump to any song in the list.

Code

Imports

```
%load_ext autoreload
%autoreload 2

import sys
sys.path.append("./shazam-playlist-to-youtube-playlist")
```

```
from IPython.display import HTML
import pandas as pd
from pytube import YouTube
from app import get_youtube_song
```

Preview Data

```
# Load the Shazam library from a CSV file and return the DataFrame.
shazamlibrary_df = pd.read_csv('shazamlibrary.csv', header=1)
shazamlibrary_df
```

	Index	TagTime	Title	Artist
0	1	2024-06-13	Until I Found You (Em Beihold Version)	Stephen Sanchez & Em Beihold
1	2	2024-06-13	Capitals of Europe: Nordic Region	Katrina Holland
2	3	2024-06-13	Capitals of Europe: Nordic Region	Katrina Holland
3	4	2024-06-11	Ven Ven	Lotus Beatz
4	5	2024-05-30	Ava	Famy
...
222	223	2018-03-10	Lose Yourself	Felax
223	224	2018-03-08	This Is What It Feels Like (feat. Trevor Guthrie)	Armin van Buuren
224	225	2018-03-04	Roulette	Katy Perry
225	226	2018-03-04	Roulette	Katy Perry
226	227	2018-02-08	If You Need to, Keep Time on Me	Fleet Foxes

Format data

```
# Remove Duplicates and Select `Title` and `Artist`.
shazamlibrary_df = shazamlibrary_df.drop_duplicates(subset=['TrackKey'])[['Title', 'Artist']]
shazamlibrary_df
```

	Title	Artist
0	Until I Found You (Em Beihold Version)	Stephen Sanchez & Em Beihold
1	Capitals of Europe: Nordic Region	Katrina Holland
3	Ven Ven	Lotus Beatz
4	Ava	Famy
5	Hero	Bryan Todd Feat. Ashley Argota
...
221		Wei Xin Yu
222	Lose Yourself	Felax
223	This Is What It Feels Like (feat. Trevor Guthrie)	Armin van Buuren
224	Roulette	Katy Perry
226	If You Need to, Keep Time on Me	Fleet Foxes

```
# Test search
search_title, search_artist = shazamlibrary_df.loc[0].values
youtube: YouTube = get_youtube_song(search_title, search_artist)
youtube.watch_url
```

'https://youtube.com/watch?v=kPlSyYtE63M'

Code to run the player

Below is the code used to run the server at Huggingface:

```
"""Shazam Playlist to Youtube Playlist"""

from pathlib import Path
from typing import Optional
import logging
import pandas as pd
from pytube import Search, YouTube
from flask import Flask, request, send_from_directory
from sklearn.utils import shuffle as shuffle_fn

# https://github.com/pytube/pytube/issues/1270#issuecomment-2100372834
pytube_logger = logging.getLogger('pytube')
pytube_logger.setLevel(logging.ERROR)

app = Flask(__name__)

@app.route('/')
def index():
    """Route handler for the home page"""
    try:
        return send_from_directory('.', 'index.html')
    except Exception as e:
        return str(e)

@app.route('/video_id', methods=['POST'])
def video_id() -> str:
    """Route handler for retrieving the YouTube video ID"""
    try:
        title: str = request.json.get('title')
        artist: str = request.json.get('artist')
```

```

        youtube: YouTube = get_youtube_song(title, artist)
        return youtube.video_id
    except Exception as e:
        return str(e)

@app.route('/parse_csv', methods=['POST'])
def parse_csv():
    """Route handler for parsing the uploaded CSV file"""
    try:
        file = request.files['file']
        # Process the uploaded file
        return parse_csv_util(pd.read_csv(file, header=1))
    except Exception as e:
        return str(e)

@app.route('/parse_csv_test', methods=['GET'])
def parse_csv_test():
    """Route handler for parsing the test CSV file"""
    try:
        # Construct the path to the CSV file
        csv_path = Path(__file__).parent / 'shazamlibrary.test.csv'
        return parse_csv_util(pd.read_csv(csv_path, header=1), True)
    except Exception as e:
        return str(e)

def get_youtube_song(title: str, artist: str) -> Optional[YouTube]:
    """Searches for a YouTube video based on the given title and artist"""
    search_result = Search(f'{title} by {artist}')
    return search_result.results[0] if search_result.results else None

def parse_csv_util(df: pd.DataFrame, shuffle = False):
    try:
        df = df.drop_duplicates(subset=['TrackKey'])[['Title', 'Artist']]
        if shuffle:
            df = shuffle_fn(df)
        return df.to_json(orient="records")
    except Exception as e:
        return str(e)

```

Below is the HTML page that renders the page:

```

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>ToKnow.ai - Shazam Playlist to Youtube Playlist</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" rel="script"></script>
  <script src="https://www.youtube.com/iframe_api"></script>
  <style>
    .youtube-player,
    iframe {
      width: 100%;
      height: 100%;
    }

    .playlist tbody tr {
      cursor: pointer;
    }
  </style>
</head>

<body>
  <div class="container my-4">
    <h1 class="text-center">Convert Your Shazam Playlist to YouTube Playlist</h1>
    <p class="text-center">
      <em>
        <i>
          Read details or <b>Comment</b> at
          <a target="_blank" href="https://toknow.ai/posts/shazam-playlist-to-youtube-playlist/">
            https://toknow.ai/posts/shazam-playlist-to-youtube-playlist/
          </a>
        </i>
      </em>
    </p>
    <p class="text-center">
      Download the CSV of your playlist from
      <a href="https://www.shazam.com/myshazam" target="_blank">https://www.shazam.com
    </p>
    <p class="text-center">Upload your Shazam Playlist CSV file.</p>
  </div>

```

```

<div class="row mx-2 justify-content-center">
  <div class="col-md-6">
    <input type="file" class="form-control upload-form col-md-6" accept=".csv">
  </div>
</div>

<div class="d-flex mt-2 justify-content-center">
  <a id="load-test-playlist" class="btn btn-secondary btn-sm fst-italic">
    click here to load test playlist
  </a>
</div>

<div class="row mt-3 justify-content-center">
  <div class="col-md-8">
    <div class="object-fit-contain border rounded ratio ratio-16x9">
      <div class="youtube-player"></div>
    </div>
  </div>
</div>

<div class="row mt-5">
  <div class="col-md-12 playlist table-responsive">
  </div>
</div>
</div>

<script>
const playlistTable = document.querySelector('.playlist');
const uploaForm = document.querySelector('.upload-form');
let songsPlaylist = []
let videoIndex = -1;
let youtubePlayer;

document.querySelector('#load-test-playlist').addEventListener('click', async e => {
  try {
    e.preventDefault();

    const playlist = await(await fetch('/parse_csv_test')).json();
    generateTable(playlist)
  } catch (error) {
    playlistTable.innerHTML = error;
  }
}

```



```

});

uploadForm.addEventListener('input', e => {
  e.preventDefault();
  if (e.target.files.length == 0) {
    return;
  }

  parseCsv(e.target.files[0], playlistTable);
});
playlistTable.addEventListener('click', e => {
  e.preventDefault();
  const row = event.target.closest('tr');
  if (row) {
    const index = row.dataset.index ? Number(row.dataset.index) : undefined;
    onContinue(undefined, index);
  }
});
function resetCurrentPlayingBackground() {
  playlistTable.querySelectorAll('tbody tr').forEach(row => {
    if (Number(row.dataset.index) == videoIndex) {
      row.classList.add('bg-warning');
    } else {
      row.classList.remove('bg-warning');
    }
  })
}
function addErrorToCurrentIndex() {
  playlistTable.querySelectorAll('tbody tr').forEach(row => {
    if (Number(row.dataset.index) == videoIndex) {
      row.classList.add('bg-danger');
    }
  })
}
async function getVideoId(song) {
  const response = await fetch(
    '/video_id',
    {
      headers: { 'Content-Type': 'application/json' },
      method: 'POST',
      body: JSON.stringify({ title: song.Title, artist: song.Artist })
    }
  );
}

```

```

    return await response.text()
  }
  async function nextVideo(callback, newIndex = undefined) {
    newIndex = newIndex >= 0 ? newIndex : (videoIndex + 1)
    videoIndex = newIndex < songsPlaylist.length ? newIndex : 0;
    let video_id = await getVideoId(songsPlaylist[videoIndex]);
    callback(video_id);
    resetCurrentPlayingBackground();
  }
  function generateTable(playlist) {
    try {
      songsPlaylist = playlist
      const tableBody = songsPlaylist.map((i, index) => `
        <tr data-index="${index}">
          <th>${index + 1}</th>
          <th>${i.Title}</th>
          <th>${i.Artist}</th>
        </tr>`
      ).join('')
      playlistTable.innerHTML = `
<table class="table table-striped table-hover table-bordered rounded">
  <thead>
    <tr>
      <th>#</th>
      <th>Title</th>
      <th>Artist</th>
    </tr>
  </thead>
  <tbody>${tableBody}</tbody>
</table>`

      tryToPlay(() => {
        videoIndex = -1;
        onContinue();
      }, 100)
    } catch (error) {
      playlistTable.innerHTML = error;
    }
  }
  async function parseCsv(file, playlistTable) {
    try {
      const formData = new FormData();

```

```

        formData.append('file', file);
        const playlist = await (await fetch('/parse_csv', { method: 'POST', body: fo
        generateTable(playlist)
    } catch (error) {
        playlistTable.innerHTML = error;
    }
}
function initiatePlayer() {
    const youtubePlayerElement = document.querySelector('.youtube-player');
    youtubePlayer = window.youtubePlayer = new YT.Player(youtubePlayerElement, {
        height: '100%',
        width: '100%',
        playerVars: { autoplay: 1 },
        events: {
            'onReady': function (event) {
                event.target.playVideo()
            },
            'onStateChange': function (event) {
                if (event.data === YT.PlayerState.ENDED) {
                    onContinue(event?.target);
                }
            },
            'onError': function (event) {
                addErrorToCurrentIndex();
                onContinue(event?.target);
            }
        }
    });
}
function onContinue(player = undefined, newIndex = undefined) {
    if (songsPlaylist.length > 0) {
        nextVideo((value) => {
            player = player || youtubePlayer
            player.loadVideoById(value);
            setTimeout(() => {
                player.playVideo();

                setTimeout(() => {
                    if (player.getPlayerState() !== YT.PlayerState.PLAYING) {
                        player.playVideo();
                    }
                }, 10);
            });
        });
    }
}

```

```

        }, 10);
    }, newIndex);
}

function tryToPlay(playCallback, timeout) {
    setTimeout(() => {
        if (YT.Player) {
            if (!youtubePlayer) {
                initiatePlayer();
                tryToPlay?.();
            } else if (songsPlaylist.length > 0) {
                playCallback();
            }
        }
    }, timeout);
}

tryToPlay(null, 300);
</script>
</body>
</html>

```

Test the App

</apps/shazam-playlist-to-youtube-playlist>

```

HTML(''<iframe
  src="https://toknow-ai-shazam-playlist-to-youtube-playlist.hf.space"
  frameborder="0"
  width="100%"
  height="600"
  style="width:100%"
></iframe>'')

```

Conclusion

The Shazam to YouTube Playlist converter offers a fantastic, free alternative for enjoying your music discoveries. It bridges the gap between Shazam's identification capabilities and

the vast library of music available on YouTube. Whether you're a casual music listener or an avid discoverer of new tunes, this tool provides a valuable service without the need for paid subscriptions. Give it a try and turn your Shazam discoveries into a personalized YouTube concert. Happy listening!

***Disclaimer:** For information only. Accuracy or completeness not guaranteed. Illegal use prohibited. Not professional advice or solicitation. While this tool is free and convenient, always respect copyright laws and support your favorite artists when possible. **Read more:** [/terms-of-service](#)*