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Audeo

Audio is a python webscraping and web automation script that downloads a desired song and finds all related attributes such as album name, album artwork, and lyrics in order to create a complete mp3 file.

Audeo takes the song name and artist as input and searches for the link of song in the desired platform. Currently supported are YouTube & SoundCloud. On RapGenius, Audeo will then look for the album name, album artwork, and lyrics. The song is downloaded from anything2mp3 which extracts the mp3 file provided link. Finally, the mp3 file attributes will be set with the scraped information.

Purpose

- To have my OCD satisfied
- To improve listening experience
- To make downloading music less tedious
- To allow better music library organization
- To combat limited data plan which restricts music streaming

Dependencies

Audeo uses these python libraries to work properly:

- BeautifulSoup HTML/XML parser for extracting data
- eyeD3 MP3 file attributes editor
- Selenium Selenium
- chromedriver Webdriver

Options

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Searches the song from YouTube -y, --youtube Searches the song from SoundCloud (Includes album -s, --soundcloud artwork from SoundCloud) Gets entire mp3 package, including: mp3, lyrics, album -p, --package name, and album artwork. *Recommended only for wellknown songs from established artists* -i, --interactive Interactive option. Displays all possible song download options found. (Higher accuracy) -c CUSTOM_LINK, --custom-link CUSTOM_LINK Custom user link option, allowing for user to enter the link of the video or song -l, --lyrics-only Shows lyrics on screen

Future features

- Progress bars
- · Downloading with custom link
- SoundCloud profile interaction
- · Downloading song currently playing in tab
- Downloading all songs from a YouTube playlist
- Further implementation for interactive option
 - Extraction of mp3 from HypeM / DailyMotion/ Vimeo videos
 - Hidden chromedriver windows using PhantomJS or virutal python env
 - Migration to being a JavaScript application using Express.js, Angular,js, and Node.js

Known bugs/flaws

- Bash forbidden characters in artist names will cause an error
 - ex: Joey Bad@\$\$, Ke\$ha
- Eyed3 date error when setting attributes
 - o does not affect validity mp3 file
- · Error thrown when song not found on RapGenius
- Download file path must be edited manually
- Custom link option is faulty and will throw an error

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