

Welcome to Colab!

If you're already familiar with Colab, check out this video to learn about interactive tables, the executed code history view, and the command palette.



```
import pandas as pd
```

```
dataset = pd.read_csv('Billboards.csv')
print(dataset.shape)
titles = list(dataset['Title'])
data = []
dataset.head()
```

(269, 3)

	Artist	Title	Label
0	Dua Lipa	Levitating	1
1	The Weeknd	Blinding Lights	1
2	Olivia Rodrigo	Good 4 U	1
3	Olivia Rodrigo	Drivers License	1
4	Lil Nas X	Montero (Call Me By Your Name)	1

```
pip install yt_dlp
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/r
Requirement already satisfied: yt_dlp in /usr/local/lib/python3.7/dist-packages (2022.10.1)
Requirement already satisfied: pycryptodomex in /usr/local/lib/python3.7/dist-packages (3.10.1)
Requirement already satisfied: certifi in /usr/local/lib/python3.7/dist-packages (from yt_dlp) (2022.9.24)
Requirement already satisfied: brotli in /usr/local/lib/python3.7/dist-packages (from yt_dlp) (1.2.0)
Requirement already satisfied: websockets in /usr/local/lib/python3.7/dist-packages (from yt_dlp) (10.3)
Requirement already satisfied: mutagen in /usr/local/lib/python3.7/dist-packages (from yt_dlp) (1.45.1)
```

```
import os # provides functions for creating and removing a directory (folder), fetching it
```

```

#changing and identifying the current directory
from requests import get
from yt_dlp import YoutubeDL # (It take less time than from youtube_dl import YoutubeDL to

YDL_OPTIONS = {'format': 'bestaudio', 'noplaylist':'True'}

def search(arg, type):
    with YoutubeDL(YDL_OPTIONS) as ydl:
        try:
            get(arg)
        except:
            song = ydl.extract_info(f"ytsearch:{arg}", download=True)['entries'][0]
        else:
            song = ydl.extract_info(arg, download=True)

    oldpath = song['title'] + ' [' + song['id'] + '].' + song['ext']
    newpath = f"{type}/{song['title']}.mp3"
    os.rename(f"{oldpath}", newpath)

    return song, newpath

```

▼ search for song by title and name of artist to avoid downloaded another title from youtube.

Parameters

i: iterator for looping in every title in titles. string: title of song and name of artist to search with it to avoid download anything else song. in search method when i from 0 to 83 is popular(Songs) and from 84 to 270 is unpopular(Unpopular).

```

data= []
i = 0
while i < len(titles):
    string = titles[i] + ' ' + dataset['Artist'][dataset['Title'] == titles[i]].values[0]
    if i < 85:
        audio, path = search(string, 'Popular') # Songs directory to collect all popular son
    else:
        audio, path = search(string, 'Unpopular') # Unpopular directory to collect all unp

    data.append({'Title': titles[i], 'Path': path})
    i += 1
    if i == len(titles):
        break

```



```

[download] Downloading playlist: Levitating Dua Lipa
[youtube:search] query "Levitating Dua Lipa": Downloading web client config
[youtube:search] query "Levitating Dua Lipa" page 1: Downloading API JSON
[youtube:search] Playlist Levitating Dua Lipa: Downloading 1 videos of 1
[download] Downloading video 1 of 1
[youtube] TUVcZfQe-Kw: Downloading webpage
[youtube] TUVcZfQe-Kw: Downloading android player API JSON
[info] TUVcZfQe-Kw: Downloading 1 format(s): 251
[download] Dua Lipa - Levitating Featuring DaBaby (Official Music Video) [TUVcZfQe
[download] 100% of 3.55MiB
[download] Finished downloading playlist: Levitating Dua Lipa
[download] Downloading playlist: Blinding Lights The Weeknd
[youtube:search] query "Blinding Lights The Weeknd": Downloading web client config
[youtube:search] query "Blinding Lights The Weeknd" page 1: Downloading API JSON
[youtube:search] Playlist Blinding Lights The Weeknd: Downloading 1 videos of 1
[download] Downloading video 1 of 1
[youtube] 4NRXx6U8ABQ: Downloading webpage
[youtube] 4NRXx6U8ABQ: Downloading android player API JSON
[info] 4NRXx6U8ABQ: Downloading 1 format(s): 251
[download] Destination: The Weeknd - Blinding Lights (Official Video) [4NRXx6U8ABQ
[download] 100% of 3.91MiB in 00:00 at 23.68MiB/s
[download] Finished downloading playlist: Blinding Lights The Weeknd
[download] Downloading playlist: Good 4 U Olivia Rodrigo
[youtube:search] query "Good 4 U Olivia Rodrigo": Downloading web client config
[youtube:search] query "Good 4 U Olivia Rodrigo" page 1: Downloading API JSON
[youtube:search] Playlist Good 4 U Olivia Rodrigo: Downloading 1 videos of 1
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[youtube] gNi_6U5Pm_o: Downloading android player API JSON
[info] gNi_6U5Pm_o: Downloading 1 format(s): 251
[download] Destination: Olivia Rodrigo - good 4 u (Official Video) [gNi_6U5Pm_o].w
[download] 100% of 2.98MiB in 00:00 at 19.33MiB/s
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[info] LpEeTn3bLyc: Downloading 1 format(s): 251
[download] Destination: Olivia Rodrigo - drivers license (Lyrics) [LpEeTn3bLyc].we
[download] 100% of 3.91MiB in 00:00 at 22.42MiB/s
[download] Finished downloading playlist: Drivers License Olivia Rodrigo
[download] Downloading playlist: Montero (Call Me By Your Name) Lil Nas X
[youtube:search] query "Montero (Call Me By Your Name) Lil Nas X": Downloading web
[youtube:search] query "Montero (Call Me By Your Name) Lil Nas X" page 1: Download
[youtube:search] Playlist Montero (Call Me By Your Name) Lil Nas X: Downloading 1
[download] Downloading video 1 of 1
[youtube] 6swmTBVI83k: Downloading webpage
[youtube] 6swmTBVI83k: Downloading android player API JSON
[info] 6swmTBVI83k: Downloading 1 format(s): 251
[download] Destination: Lil Nas X - MONTERO (Call Me By Your Name) (Official Videoc
[download] 100% of 2.96MiB in 00:00 at 18.15MiB/s
[download] Finished downloading playlist: Montero (Call Me By Your Name) Lil Nas X

```

