Download YouTube Video by Pasting Link in Python

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⌄ 1. Setup and Installation

- **Installing Required Libraries**

```
pip install pytube3
```

```
⇥  Collecting pytube3
      Downloading pytube3-9.6.4-py3-none-any.whl.metadata (16 kB)
   Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from pytube3) (4.12.2)
   Downloading pytube3-9.6.4-py3-none-any.whl (38 kB)
   Installing collected packages: pytube3
   Successfully installed pytube3-9.6.4
```

```
pip install --upgrade pytube
```

```
⇥  Collecting pytube
      Downloading pytube-15.0.0-py3-none-any.whl.metadata (5.0 kB)
   Downloading pytube-15.0.0-py3-none-any.whl (57 kB)
      ──────────────────────────────────────── 57.6/57.6 kB 930.3 kB/s eta 0:00:00
   Installing collected packages: pytube
   Successfully installed pytube-15.0.0
```

```
pip install yt-dlp
```

```
⇥  Collecting yt-dlp
      Downloading yt_dlp-2024.8.6-py3-none-any.whl.metadata (170 kB)
                      ──────────────────────────────── 170.1/170.1 kB 1.5 MB/s eta 0:00:00
   Collecting brotli (from yt-dlp)
      Downloading Brotli-1.1.0-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_12_x86_64.manylinux2010_x86_64.whl.metadata (5
   Requirement already satisfied: certifi in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (2024.7.4)
   Collecting mutagen (from yt-dlp)
      Downloading mutagen-1.47.0-py3-none-any.whl.metadata (1.7 kB)
   Collecting pycryptodomex (from yt-dlp)
      Downloading pycryptodomex-3.20.0-cp35-abi3-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (3.4 kB)
   Requirement already satisfied: requests<3,>=2.32.2 in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (2.32.3)
   Requirement already satisfied: urllib3<3,>=1.26.17 in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (2.0.7)
   Collecting websockets>=12.0 (from yt-dlp)
      Downloading websockets-13.0.1-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metada
   Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.32.2->yt-dlp) (3
```

```
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.32.2->yt-dlp) (3.8)
Downloading yt_dlp-2024.8.6-py3-none-any.whl (3.1 MB)
━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 3.1/3.1 MB 20.3 MB/s eta 0:00:00
Downloading websockets-13.0.1-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (157 kB)
━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 157.3/157.3 kB 11.6 MB/s eta 0:00:00
Downloading Brotli-1.1.0-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_12_x86_64.manylinux2010_x86_64.whl (3.0 MB)
━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 3.0/3.0 MB 73.0 MB/s eta 0:00:00
Downloading mutagen-1.47.0-py3-none-any.whl (194 kB)
━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 194.4/194.4 kB 13.2 MB/s eta 0:00:00
Downloading pycryptodomex-3.20.0-cp35-abi3-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (2.1 MB)
━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 2.1/2.1 MB 64.7 MB/s eta 0:00:00
Installing collected packages: brotli, websockets, pycryptodomex, mutagen, yt-dlp
Successfully installed brotli-1.1.0 mutagen-1.47.0 pycryptodomex-3.20.0 websockets-13.0.1 yt-dlp-2024.8.6
```

⌄ 2. Importing Libraries

```
from pytube import YouTube
from yt_dlp import YoutubeDL
```

⌄ 3. Pasting the YouTube Video Link

```
link = input("Past youtube video link here!")
yt = YouTube(link)
```

⮕ Past youtube video link here!https://www.youtube.com/watch?v=qbE0fzZ2Nfo

⌄ 4. Extracting Video Details

```
# To print title
print("Title :", yt.title)
# To get number of views
print("Views :", yt.views)
# To get the length of video
print("Duration :", yt.length)
# To get description
print("Description :", yt.description)
# To get ratings
print("Ratings :", yt.rating)
```

⮕ Title : Kolkata Doctor Case
     Views : 4563855
     Duration : 1976
     Description : None
     Ratings : None

⌄ 5. Downloading the YouTube Video

```
from yt_dlp import YoutubeDL

download_option = input("Do you want to download this video? (yes/no): ").lower()

if download_option == "yes":
    url = 'https://www.youtube.com/watch?v=eDN6fAWLNNE&t=5432s'
    ydl_opts = {'format': 'best'}
    with YoutubeDL(ydl_opts) as ydl:
        print("Downloading...")
        ydl.download([url])
        print("Download completed.")
else:
    print("Download aborted.")
```

⮕ Do you want to download this video? (yes/no): yes
     Downloading...
     [youtube] Extracting URL: https://www.youtube.com/watch?v=eDN6fAWLNNE&t=5432s
     [youtube] eDN6fAWLNNE: Downloading webpage
     [youtube] eDN6fAWLNNE: Downloading ios player API JSON
     [youtube] eDN6fAWLNNE: Downloading web creator player API JSON
     [youtube] eDN6fAWLNNE: Downloading m3u8 information

```
[info] eDN6fAWLNNE: Downloading 1 format(s): 18
[download] Generative AI for Build LLM Model Using Lama 3,Hugging Face & Ollama │ NareshIT [eDN6fAWLNNE].mp4 has already been downloade
[download] 100% of  190.53MiB
Download completed.
```

∨ 6. Viewing the Download Location

```
import os
os.getcwd()
```

⇥   '/content'

End of project #rohanwaghmare