4K Video 轉 Images

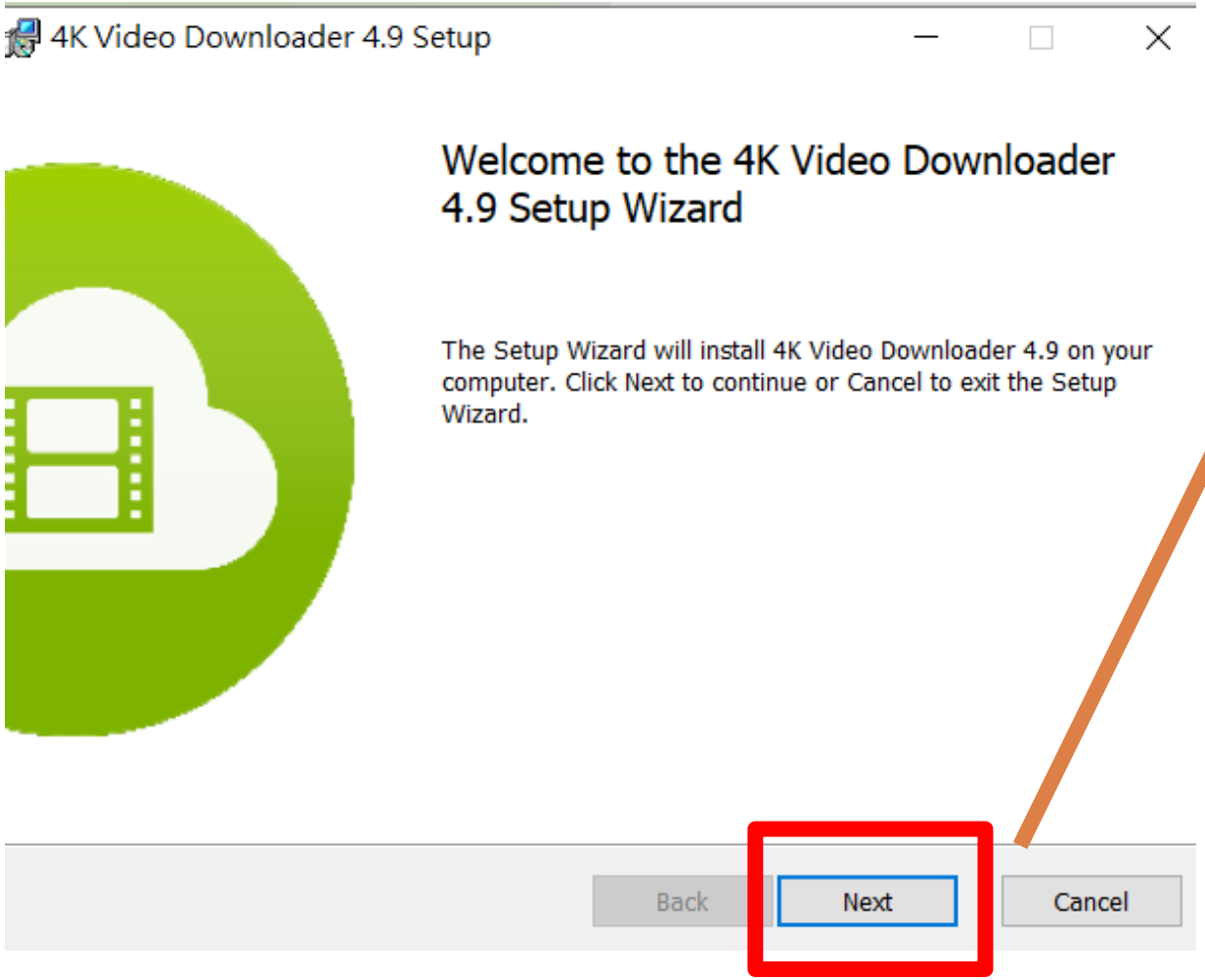
資工1A

A8206115 黃懷萱

4K Video Downloader

Google尋找並下載

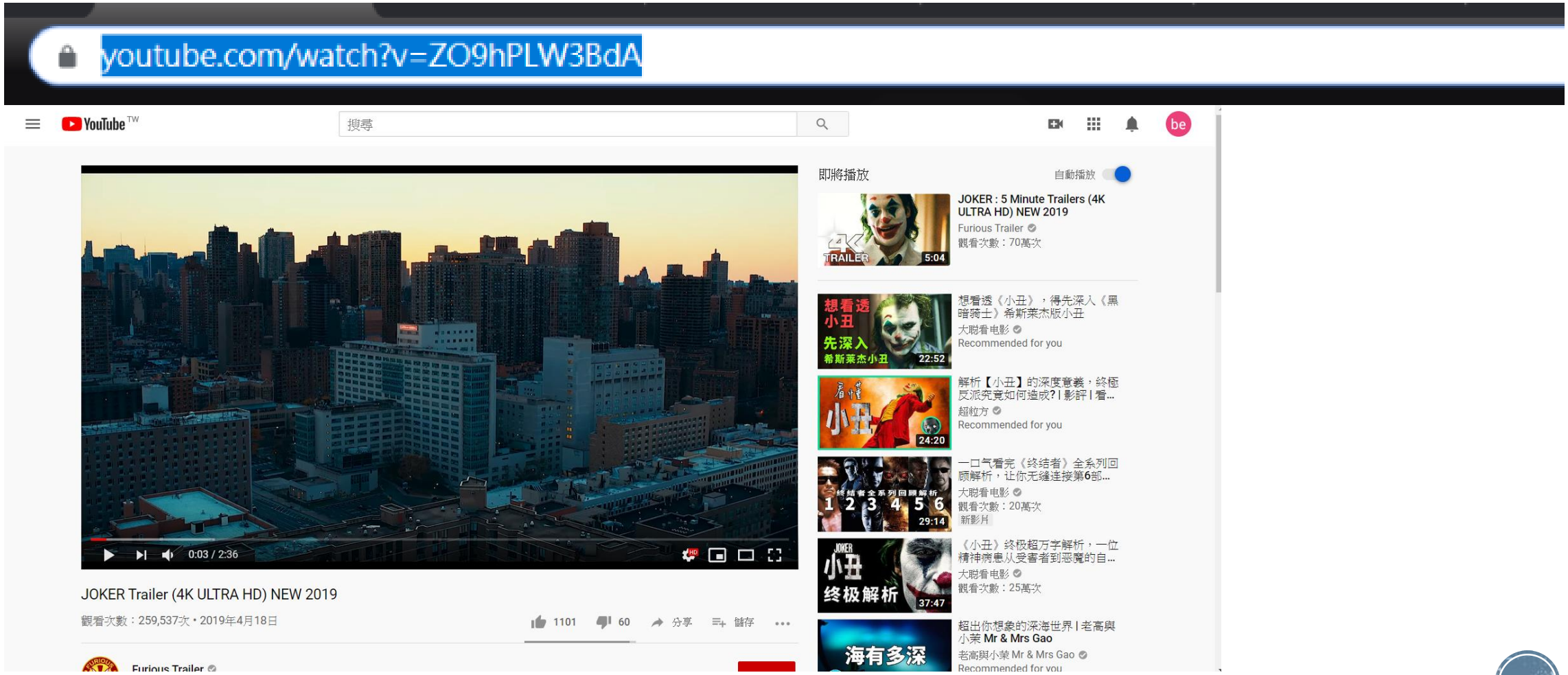
下載並得到


4K Video Downloader 4.9 Setup
Welcome to the 4K Video Downloader 4.9 Setup Wizard
The Setup Wizard will install 4K Video Downloader 4.9 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Back
Next
Cancel

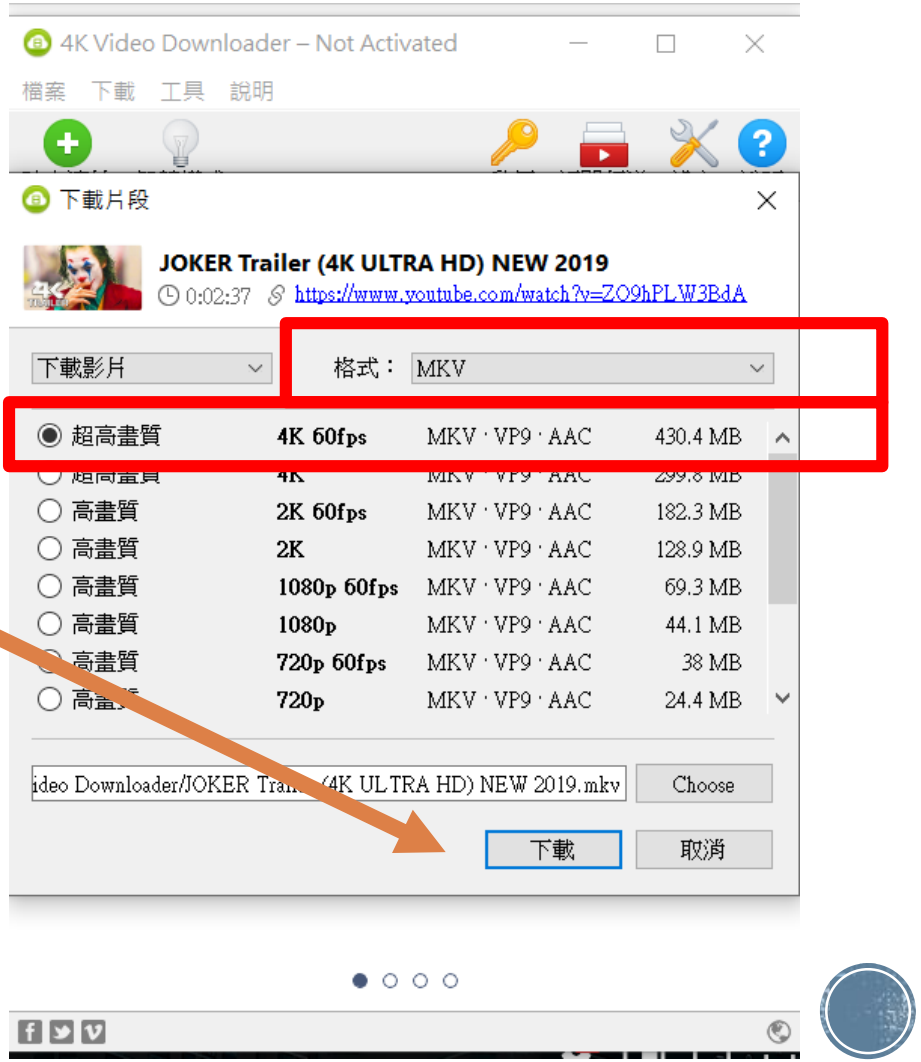

4K Video Downloader


4K Video Downloader – Not Activated
檔案 下載 工具 說明
貼上連結 智慧模式 啟用 訂閱頻道 設定 說明
複製任何 YouTube 影片、播放清單或頻道連結，並點擊貼上連結。
擷取影片及其字幕和註解。

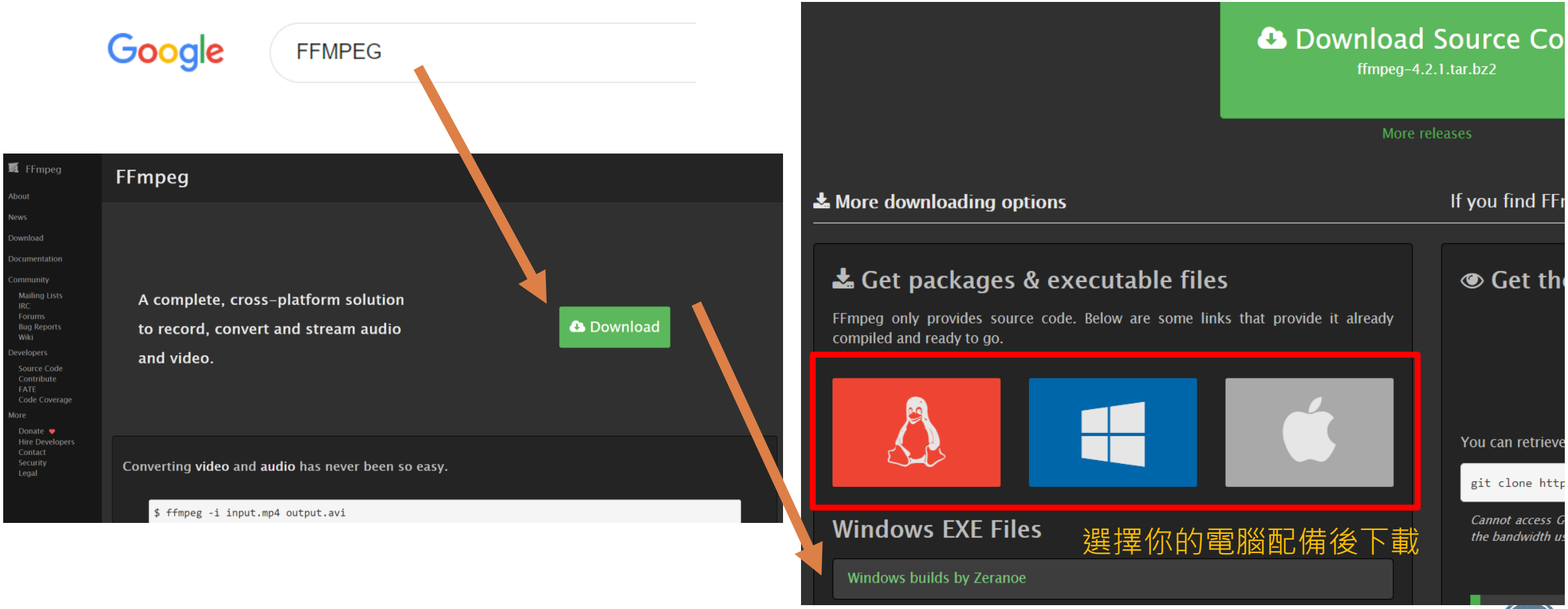
找尋4K影片，並複製連結



貼上連結後選擇超高畫質並下載



等待的時間我們來下載ffmpeg



Download，解壓縮後放在C:\

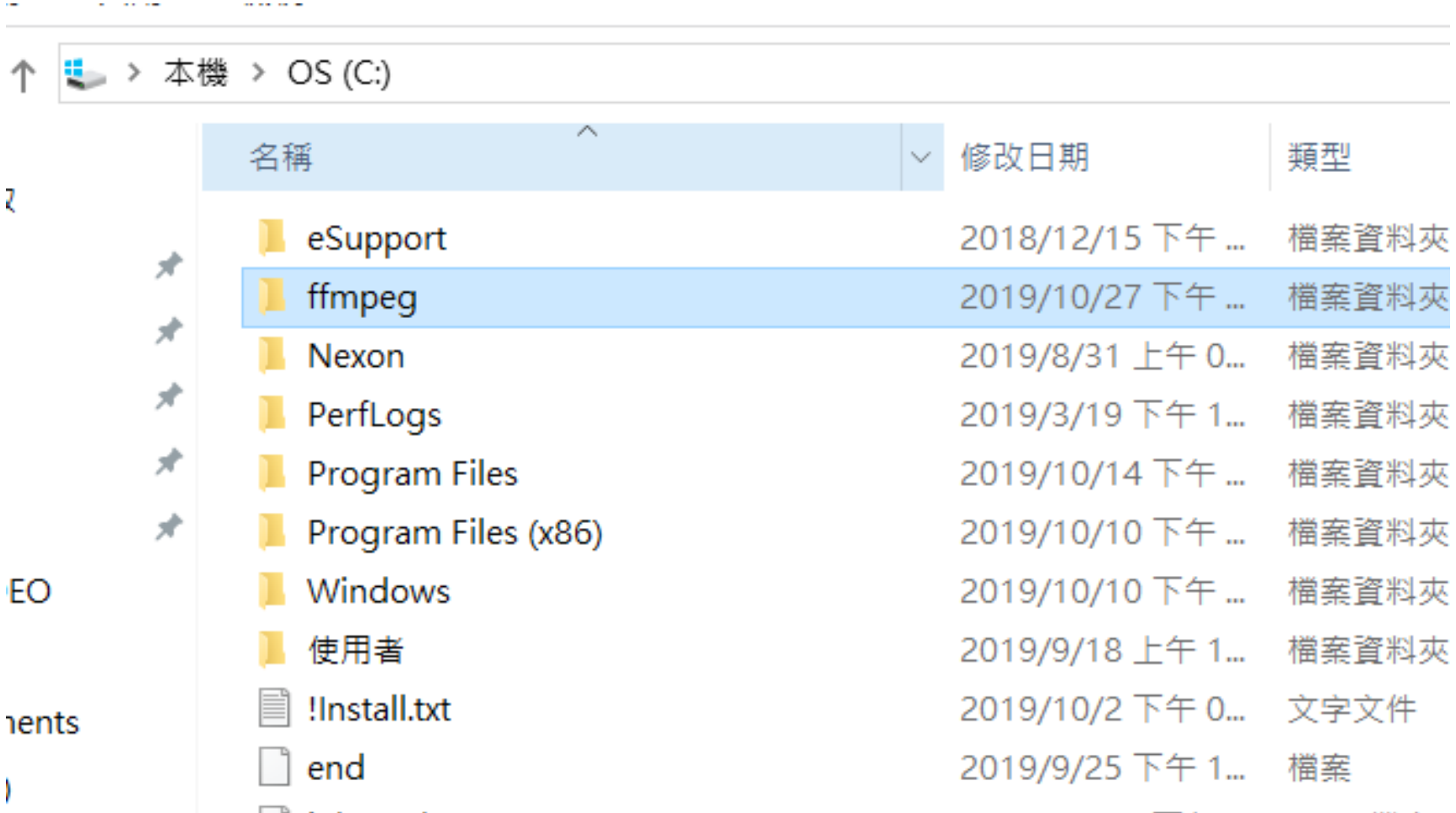
FFmpeg Builds

FFmpeg is the leading multimedia framework to decode, encode, transcode, mux, demux, stream, filter and play. All builds require at least Windows 7 or Mac OS X 10.10. Nightly git builds are licensed as GPL 3.0, and release build are licensed as GPL 3.0 and LGPL 3.0. LGPL 3.0 release builds can be found using the "All Builds" links.

Version	Architecture	Linking
20191026-1054752	Windows 64-bit	Static
4.2.1	Windows 32-bit	Shared
	macOS 64-bit	Dev

Download Build

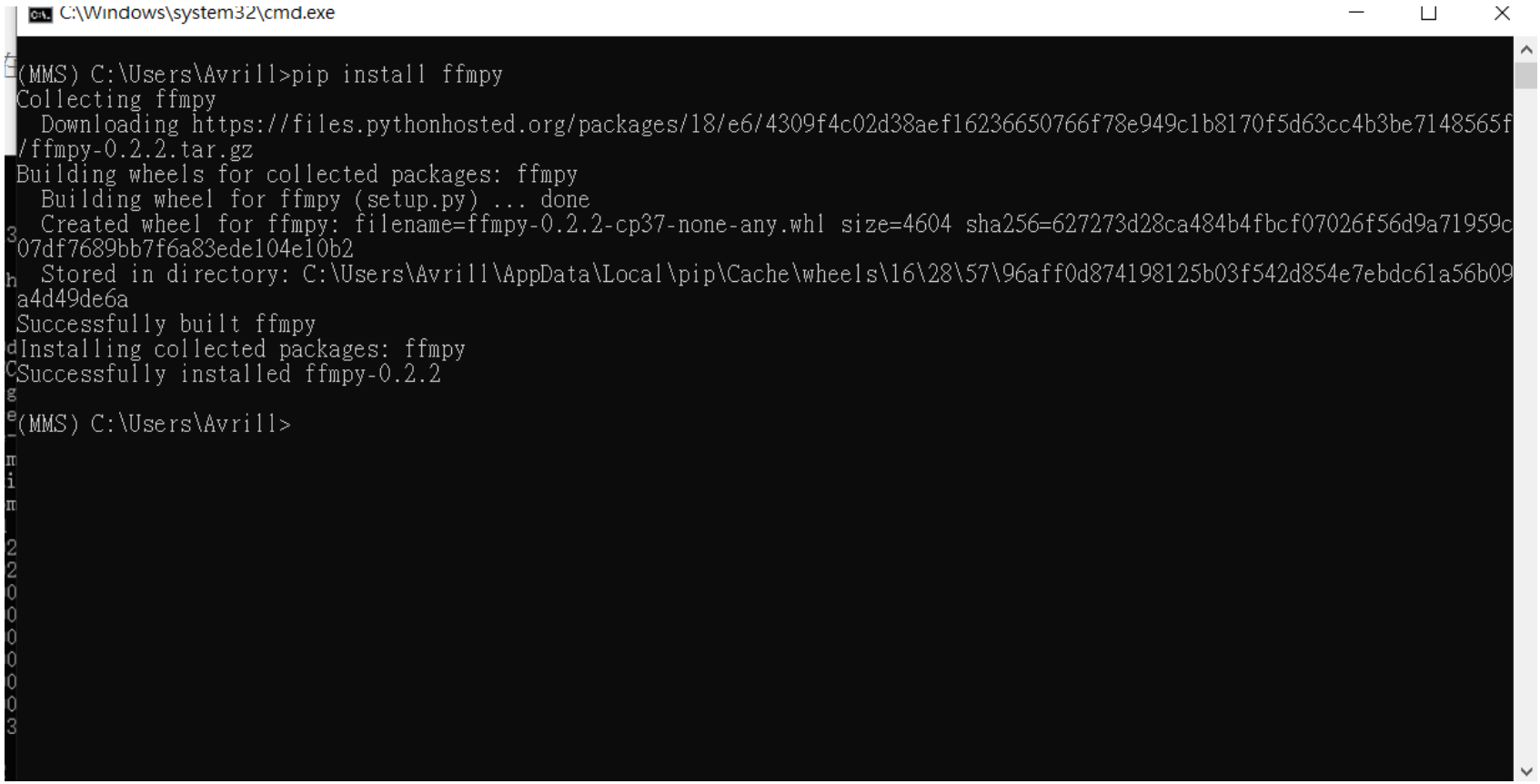
一、將解壓縮後的資料夾改成ffmpeg即可
二、把影片放入C:\ffmpeg\bin裡頭



利用「搜尋」打開CMD


全部
應用程式
文件
設定
相片
電子郵件
網頁
更多
意見反應
最佳比對
命令提示字元
應用程式
應用程式
x86 Native Tools Command Prompt for VS 2019
x86_x64 Cross Tools Command Prompt for VS 2019
Developer Command Prompt for VS 2019
設定
在 Win + X 功能表中以 Windows PowerShell 取代命令提示字元
搜尋網路
cmd - 查看網頁結果
命令提示字元
應用程式
開啟
以系統管理員身分執行
開啟檔案位置
釘選到 [開始]
釘選到工作列
cmd

輸入 pip install ffmpy



選取 命令提示字元

```
Microsoft Windows [版本 10.0.18362.418]
(c) 2019 Microsoft Corporation. 著作權所有，並保留一切權利。

C:\Users\Avrill>cd..

C:\Users>cd..

C:\>cd ffmpeg

C:\ffmpeg>ffmpeg -i joker.mkv -vf fps=1 out%d.jpg
'ffmpeg' 不是內部或外部命令、可執行的程式或批次檔。

C:\ffmpeg>cd bin

C:\ffmpeg\bin>ffmpeg -i joker.mkv -vf fps=1 out%d.jpg
ffmpeg version git-2019-10-26-1054752 Copyright (c) 2000-2019 the FFmpeg developers
  built with gcc 9.2.1 (GCC) 20191010
  configuration: --enable-gpl --enable-version3 --enable-sdl2 --enable-fontconfig --enable-gnutls --enable-iconv --enable-libass --enable-libdav1d --enable-libbluray --enable-libfreetype --enable-libmp3lame --enable-libopencore-amrnb --enable-libopencore-amrwb --enable-libopenjpeg --enable-libopus --enable-libshine --enable-libsnappy --enable-libsoxr --enable-libtheora --enable-libtwolame --enable-libvpx --enable-libwavpack --enable-libwebp --enable-libx264 --enable-libx265 --enable-libxml2 --enable-libzimg --enable-lzma --enable-zlib --enable-gmp --enable-libvidstab --enable-libvorbis --enable-libvo-amrwbenc --enable-libmysofa --enable-libspeex --enable-libxvid --enable-libaom --enable-libmfx --enable-ffnvcodec --enable-cuvid --enable-d3d11va --enable-nvenc --enable-nvdec --enable-dxva2 --enable-avisynth --enable-libopenmpt --enable-amf
  libavutil      56. 35.101 / 56. 35.101
  libavcodec     58. 60.100 / 58. 60.100
  libavformat    58. 33.100 / 58. 33.100
  libavdevice    58.  9.100 / 58.  9.100
  libavfilter     7. 65.100 /  7. 65.100
```

將CMD的資料夾改成ffmpeg

- 輸入：

cd..

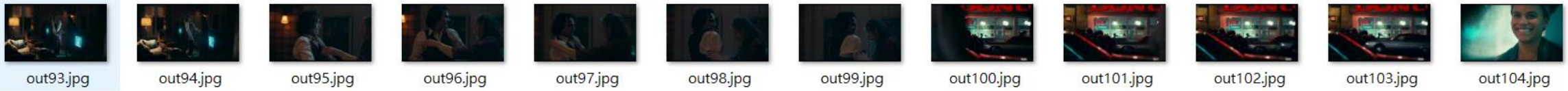
cd..

cd ffmpeg

cd bin

ffmpeg -I (影片名稱.影片格式) -vf fps=0.out%d.jpg

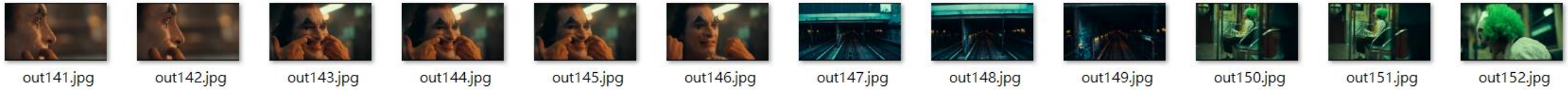
獲得圖片


out93.jpg out94.jpg out95.jpg out96.jpg out97.jpg out98.jpg out99.jpg out100.jpg out101.jpg out102.jpg out103.jpg out104.jpg

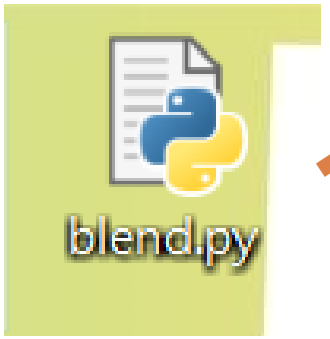

out105.jpg out106.jpg out107.jpg out108.jpg out109.jpg out110.jpg out111.jpg out112.jpg out113.jpg out114.jpg out115.jpg out116.jpg


out117.jpg out118.jpg out119.jpg out120.jpg out121.jpg out122.jpg out123.jpg out124.jpg out125.jpg out126.jpg out127.jpg out128.jpg


out129.jpg out130.jpg out131.jpg out132.jpg out133.jpg out134.jpg out135.jpg out136.jpg out137.jpg out138.jpg out139.jpg out140.jpg


out141.jpg out142.jpg out143.jpg out144.jpg out145.jpg out146.jpg out147.jpg out148.jpg out149.jpg out150.jpg out151.jpg out152.jpg

創造一個py黨
點擊並輸入

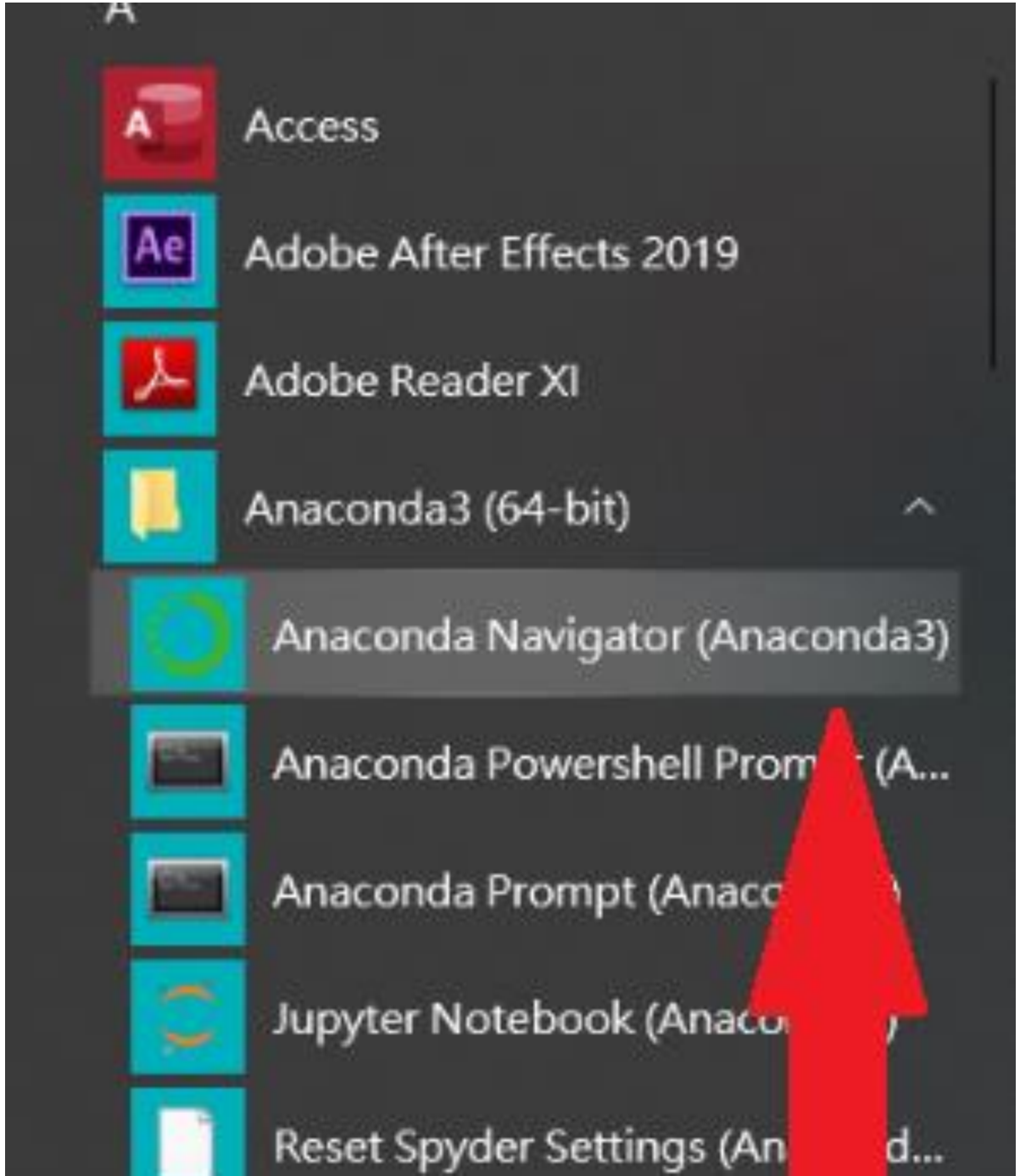


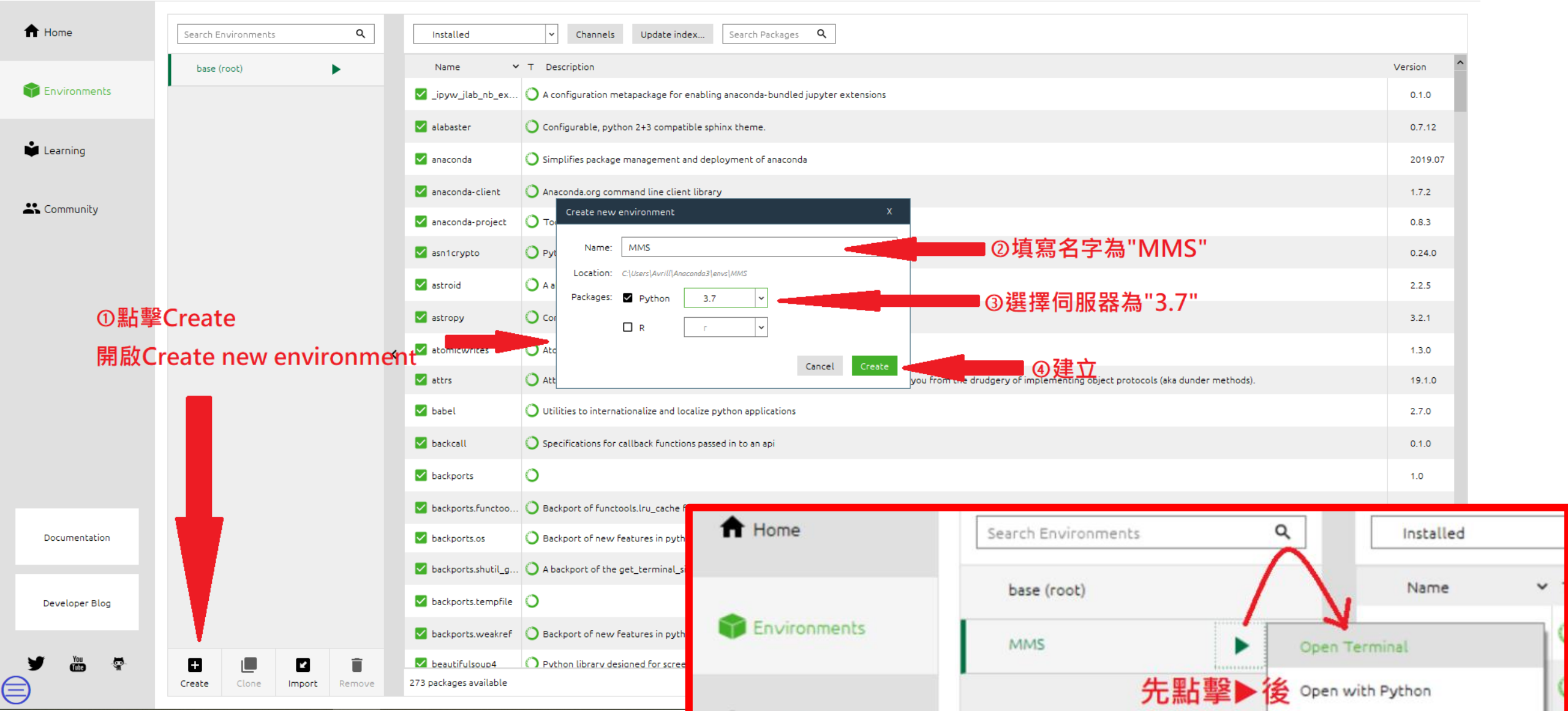
blend.py - C:\Users\Avrill\Desktop\blend.py (3.7.4)

File Edit Format Run Options Window Help

```
import cv2
import numpy as np
from matplotlib import pyplot as plt

def nop(x):
  pass

cv2.namedWindow('Blending')

cv2.createTrackbar("Alpha", "Blending" , 0,10, nop)
cv2.createTrackbar("Beta" ,  "Blending", 0,10, nop)
cv2.createTrackbar("Gamma",  "Blending", 0,10, nop)


img1 = cv2.imread('C:\\Users\Avrill\\Desktop\\out13.jpg')
img2 = cv2.imread('C:\\Users\Avrill\\Desktop\\out165.jpg')
new_w, new_h = 3840, 2160
img1 = cv2.resize(img1, (new_w, new_h), interpolation = cv2.INTER_AREA)
img2 = cv2.resize(img2, (new_w, new_h), interpolation = cv2.INTER_AREA)

while (1):
    a = cv2.getTrackbarPos("Alpha", "Blending")
    b = cv2.getTrackbarPos("Beta",  "Blending")
    c = cv2.getTrackbarPos("Gamma",  "Blending")
    dst = cv2.addWeighted(img1,a/10,img2,b/10, c/10)
    cv2.imshow('dst',dst)

    k = cv2.waitKey(1) & 0xFF
    if k == 27:
      break

cv2.destroyAllWindows()

cv2.imwrite("C:/Users/Avrill/Desktop/new.jpg", dst)
```

開啟 Anaconda


A
Access
Adobe After Effects 2019
Adobe Reader XI
Anaconda3 (64-bit)
Anaconda Navigator (Anaconda3)
Anaconda Powershell Prom (A...
Anaconda Prompt (Anaco
Jupyter Notebook (Anaco
Reset Spyder Settings (An d...


Home
Environments
Learning
Community
Search Environments
base (root)
Installed
Channels
Update index...
Search Packages
Name
T
Description
Version
_ipyw_jlab_nb_ex...
A configuration metapackage for enabling anaconda-bundled jupyter extensions
0.1.0
alabaster
Configurable, python 2+3 compatible sphinx theme.
0.7.12
anaconda
Simplifies package management and deployment of anaconda
2019.07
anaconda-client
Anaconda.org command line client library
1.7.2
anaconda-project
0.8.3
asn1crypto
0.24.0
astroid
2.2.5
astropy
3.2.1
atomicwrites
1.3.0
attrs
19.1.0
babel
Utilities to internationalize and localize python applications
2.7.0
backcall
Specifications for callback functions passed in to an api
0.1.0
backports
1.0
backports.os
backports.tempfile
backports.weakref
beautifulsoup4
Create new environment
Name:
MMS
Location:
Packages:
Python
3.7
R
Cancel
Create
①點擊Create
開啟Create new environment
②填寫名字為"MMS"
③選擇伺服器為"3.7"
④建立
Documentation
Developer Blog
Create
Clone
Import
Remove
273 packages available

Home
Environments
Learning
Community
Search Environments
Installed
base (root)
Name
MMS
Open Terminal
Open with Python
Open with Jupyter Notebook
python
先點擊▶後
在點擊Open Terminal

伺服器創建、開啟

C:\Windows\system32\cmd.exe

```
(MMS) C:\Users\Avrill>pip install numpy
Requirement already satisfied: numpy in c:\users\avrill\anaconda3\envs\mms\lib\site-packages (1.17.2)

(MMS) C:\Users\Avrill>
(MMS) C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py
  File "C:\Users\Avrill\Desktop\blend.py", line 15
    img1 = cv2.imread('C:\Users\Avrill\Desktop\\13.jpg')
                      ^
SyntaxError: (unicode error) 'unicodeescape' codec can't decode bytes in position 2-3: truncated \UXXXXXXXX esca

(MMS) C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py
  File "C:\Users\Avrill\Desktop\blend.py", line 15
    img1 = cv2.imread('C:\Users\Avrill\Desktop\\13.jpg')
    ^
IndentationError: unexpected indent

(MMS) C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py
  File "C:\Users\Avrill\Desktop\blend.py", line 15
    img1 = cv2.imread('C:\Users\Avrill\Desktop\\13.jpg')
    ^
IndentationError: unexpected indent

(MMS) C:\Users\Avrill>pip install matplotlib
Collecting matplotlib
  Downloading https://files.pythonhosted.org/packages/1a/c0/69e3f695d7384012e90be1e16570c08953baae00fd98094179ef
/matplotlib-3.1.1-cp37-cp37m-win_amd64.whl (9.1MB)
     |                                                                | 9.1MB 3.3MB/s
Requirement already satisfied: numpy>=1.11 in c:\users\avrill\anaconda3\envs\mms\lib\site-packages (from matplot
17.2)
Collecting pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 (from matplotlib)
```

輸入此串下載物件:

Pip install opencv-pthon

Pip intall numpy

Pip intall matplotlib

選擇兩張照片並融合

out14.jpg

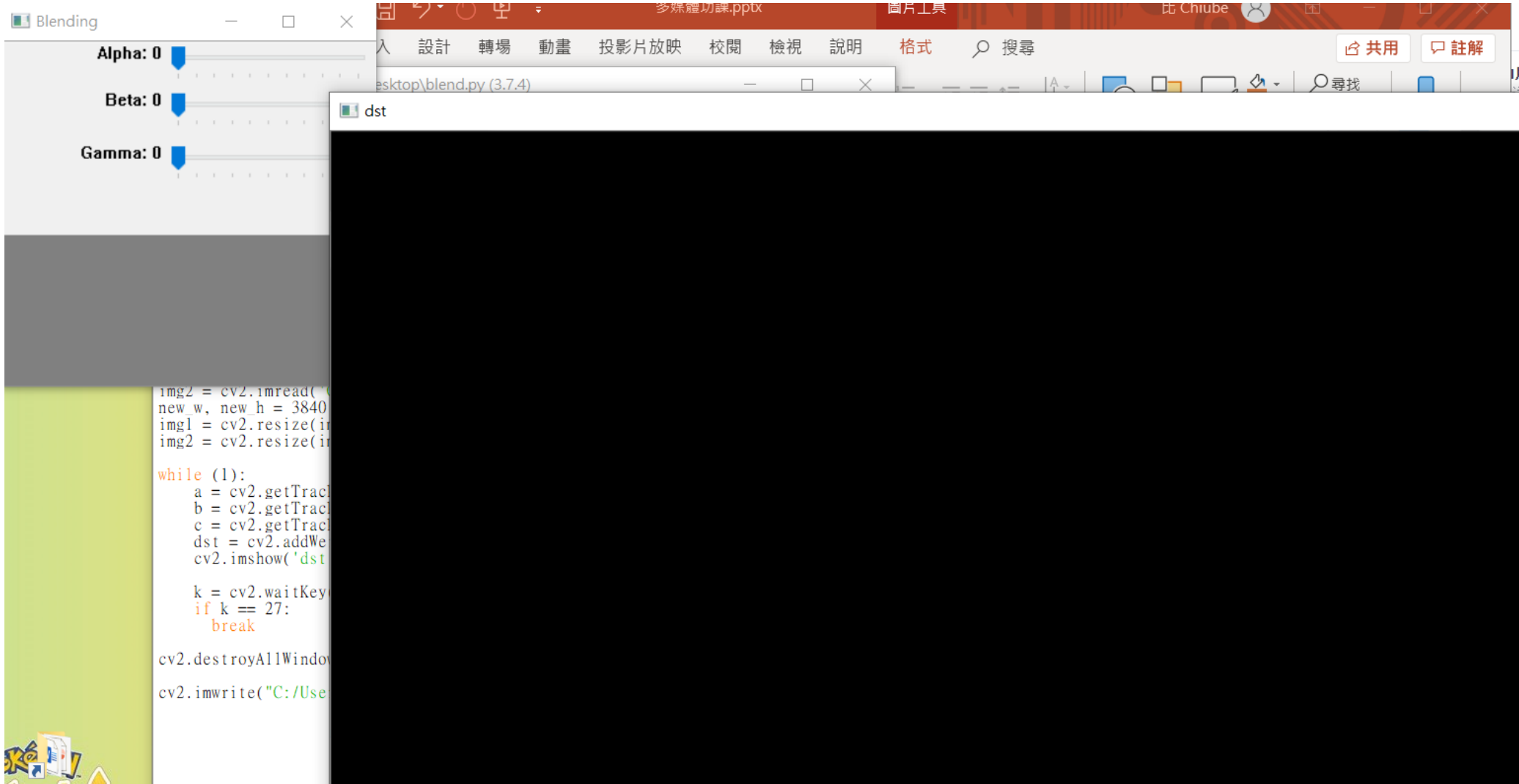
out165.jpg

選取 C:\Windows\system32\cmd.exe

```
  File "C:\Users\Avrill\Desktop\blend.py", line 15
    img1 = cv2.imread("C:\Users\Avrill\Desktop\\13.jpg")
                      ^
SyntaxError: (unicode error) 'unicodeescape' codec can't decode bytes in position 2-3: truncated \UXXXXXXXX escape

(MMS) C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py
  File "C:\Users\Avrill\Desktop\blend.py", line 15
    img1 = cv2.imread('C:\Users\Avrill\Desktop\\13.jpg')
                      ^
SyntaxError: (unicode error) 'unicodeescape' codec can't decode bytes in position 2-3: truncated \UXXXXXXXX escape

(MMS) C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py
  File "C:\Users\Avrill\Desktop\blend.py", line 15
    img1 = cv2.imread('C:\Users\Avrill\Desktop\\out13.jpg')
                      ^
SyntaxError: (unicode error) 'unicodeescape' codec can't decode bytes in position 2-3: truncated \UXXXXXXXX escape

(MMS) C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py

(MMS) C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py

(MMS) C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py

(MMS) C:\Users\Avrill>
```

輸入 C:\Users\Avrill>python C:\Users\Avrill\Desktop\blend.py (自己存放的位置)

調整喜歡深淺


Blending
Alpha: 0
Beta: 0
Gamma: 0
dst
多媒體功課.pptx
圖片工具
設計
轉場
動畫
投影片放映
校閱
檢視
說明
格式
搜尋
共用
註解
img2 = cv2.imread("
new_w, new_h = 3840
img1 = cv2.resize(i
img2 = cv2.resize(i
while (1):
a = cv2.getTrac
b = cv2.getTrac
c = cv2.getTrac
dst = cv2.addWe
cv2.imshow('dst
k = cv2.waitKey
if k == 27:
break
cv2.destroyAllWindo
cv2.imwrite("C:/Use

```
2019/11/03  下午 01:59           105,794 out84.jpg
2019/11/03  下午 01:59           104,689 out85.jpg
2019/11/03  下午 01:59           106,162 out86.jpg
2019/11/03  下午 01:59           105,339 out87.jpg
2019/11/03  下午 01:59           104,196 out88.jpg
2019/11/03  下午 01:59           103,795 out89.jpg
2019/11/03  下午 01:59           168,070 out9.jpg
2019/11/03  下午 01:59           102,535 out90.jpg
2019/11/03  下午 01:59           135,947 out91.jpg
2019/11/03  下午 01:59           140,280 out92.jpg
2019/11/03  下午 01:59           139,754 out93.jpg
2019/11/03  下午 01:59           137,754 out94.jpg
2019/11/03  下午 01:59            89,231 out95.jpg
2019/11/03  下午 01:59            90,333 out96.jpg
2019/11/03  下午 01:59            87,623 out97.jpg
2019/11/03  下午 01:59            84,523 out98.jpg
2019/11/03  下午 01:59            84,527 out99.jpg
             314 個檔案     690,366,206 位元組
               2 個目錄  132,279,762,944 位元組可用

C:\ffmpeg\bin>ffmpeg -r 2 -i out%d.jpg test.mp4
ffmpeg version git-2019-10-26-1054752 Copyright (c) 2000-2019 the FFmpeg developers
  built with gcc 9.2.1 (GCC) 20191010
  configuration: --enable-gpl --enable-version3 --enable-sdl2 --enable-fontconfig --enable-gnutls --enable-iconv
e-libass --enable-libdav1d --enable-libbluray --enable-libfreetype --enable-libmp3lame --enable-libopencore-amrnb
le-libopencore-amrwb --enable-libopenjpeg --enable-libopus --enable-libshine --enable-libsnappy --enable-libsoxr
e-libtheora --enable-libtwolame --enable-libvpx --enable-libwavpack --enable-libwebp --enable-libx264 --enable-li
-enable-libxml2 --enable-libzimg --enable-lzma --enable-zlib --enable-gmp --enable-libvidstab --enable-libvorbis
e-libvo-amrwbenc --enable-libmysofa --enable-libspeex --enable-libxvid --enable-libaom --enable-libmfx --enable-f
c --enable-cuvid --enable-d3d11va --enable-nvenc --enable-nvdec --enable-dxva2 --enable-avisynth --enable-libopen
```

回到CMD的頁面

輸入以下轉成影片:

Ffmpeg -r -1 -I (相片名稱)%d.jpg test.mp4

請注意06秒至10秒之間

Link: https://drive.google.com/file/d/110OBm6k7esEFvuVaq05tQ9R_RCd6N1iy/view