

作業系統：Mac OSX (excluded 14.6)

環境：Python 3.7, 內部函式庫 Tkinter

外部函式庫：

BlendMode ([MIT License](#)) 疊圖函式庫

Numpy ([BSD 3-Clause License](#)) 陣列資料處理

Pillow ([HPND License](#)) 圖像處理

opencv-python ([MIT License](#)) 圖像處理

py2app ([MIT License](#)) 軟體輸出

**疊圖算圖軟體演算法 Pseudocode：**

**Set** video **TO** cv2.VideoCapture (selected file)

**WHILE** not at the end of the video **DO**

**SET** frame **TO** video frame index

**IF** first frame of the video **THEN**

**SET** Base image **TO** frame

**ELSE**

**SET** Layering image **TO** frame

**SET** Blended image **TO** maximum (Base image, Layer image)

        Base image ← Blended image

        save Blended image to local directory

    set index to next video frame

**ENDWHILE**

**即時疊圖演算法 Pseudocode：**

**WHILE** capture is opened **DO**

**SET** frame **TO** capture

**IF** first of the capture **THEN**

**SET** Base image **TO** frame

**ELSE**

**SET** Layering image **TO** frame

**SET** Blended image **TO** maximum (Base image, Layer image)

        Base image ← Blended image

        show Blended Image on Screen

**ENDWHILE**