

# opencv安裝教學

## --以DevC++為例

# 一、下載opencv

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<http://opencv.org/downloads.html>

The screenshot shows the OpenCV website's 'Downloads' section. At the top left is the OpenCV logo. A navigation menu includes 'ABOUT', 'DOWNLOADS', 'DOCUMENTATION', 'PLATFORMS', 'SUPPORT', and 'CONTRIBUTE'. Social media icons and a 'DONATE' button with a red arrow pointing to a GitHub logo are on the right. The main content area lists two versions: 'VERSION 3.2' (dated 2016-12-23) and 'VERSION 2.4.13' (dated 2016-05-19). Each version has links for Windows, Linux/Mac, Android, and iOS. A red box highlights the 'VERSION 3.2' section, and a blue box highlights the 'VERSION 2.4.13' section. To the right of the red box, red text reads '對於C++僅支援64bit'. To the right of the blue box, blue text reads '對於C++支援32bit和64bit'. Below the version lists, there is a note: 'PLEASE REFER TO THE INSTALLATION DOCUMENTATION', 'OPENCV CHANGE LOGS', and 'The Git repository is here.'

2016-12-23  
**VERSION 3.2**

- [OpenCV for Windows](#)
- [OpenCV for Linux/Mac](#)
- [OpenCV for Android](#)
- [OpenCV for iOS](#)

2016-05-19  
**VERSION 2.4.13**

- [OpenCV for Windows](#)
- [OpenCV for Linux/Mac](#)
- [OpenCV for iOS](#)

對於C++僅支援64bit

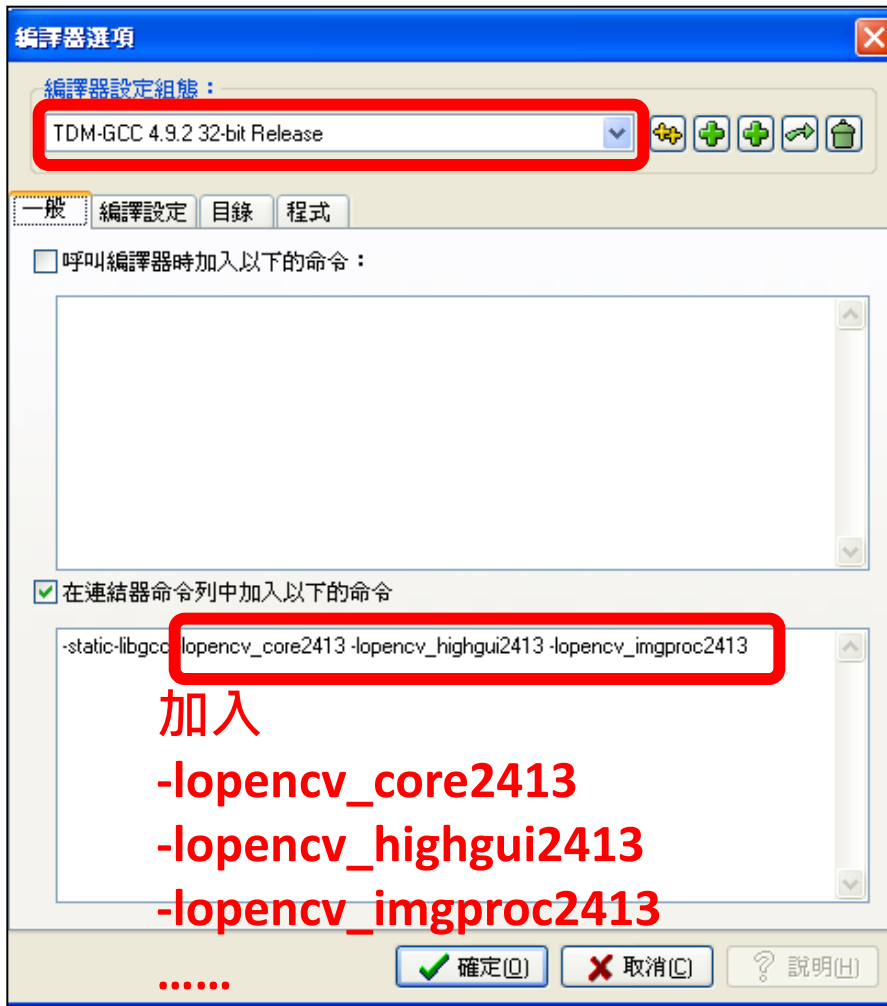
對於C++支援32bit和64bit

PLEASE REFER TO  
[THE INSTALLATION DOCUMENTATION](#)  
[OPENCV CHANGE LOGS](#)  
The Git repository is [here](#).

# 二、設定編譯器(一般)

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DevC++ > 工具 > 編譯器選項 > 一般



附註：

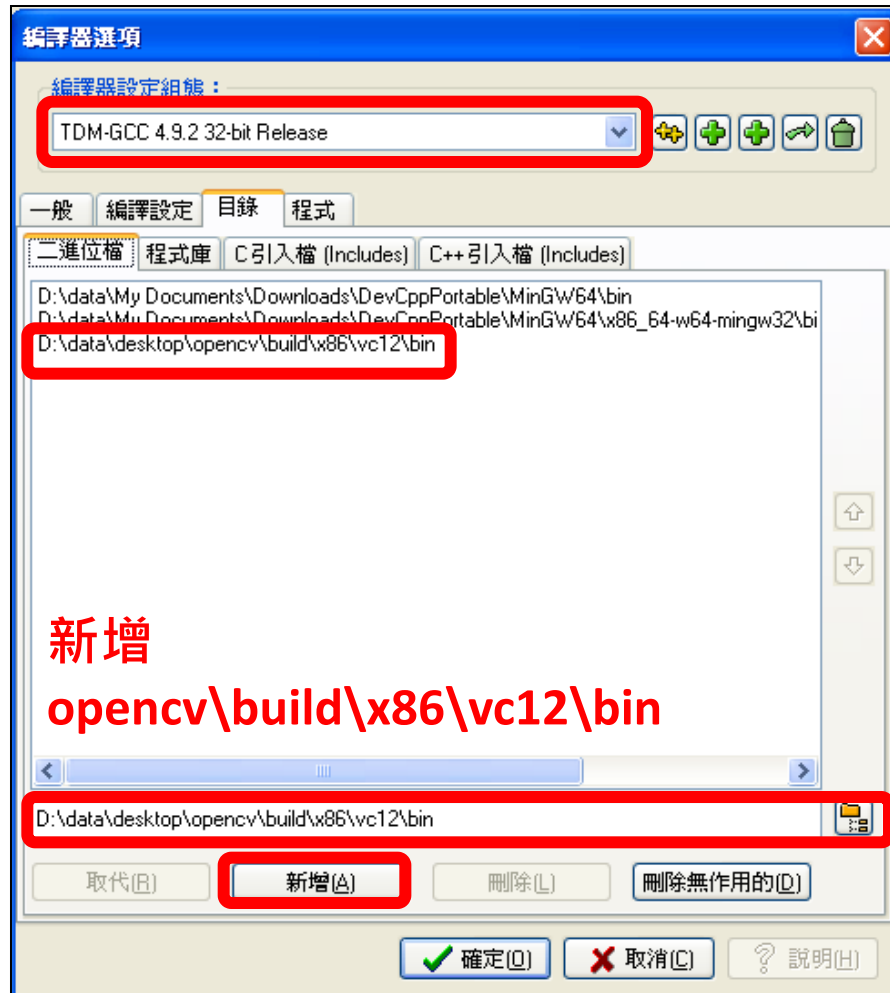
1.若是debug模式，則後面加d  
e.g., -lopencv\_core2413d

2.若是不同版本opencv，則找出  
opencv\build\x86\vc12\lib  
裡面的lib檔，並加入

# 二、設定編譯器(目錄)

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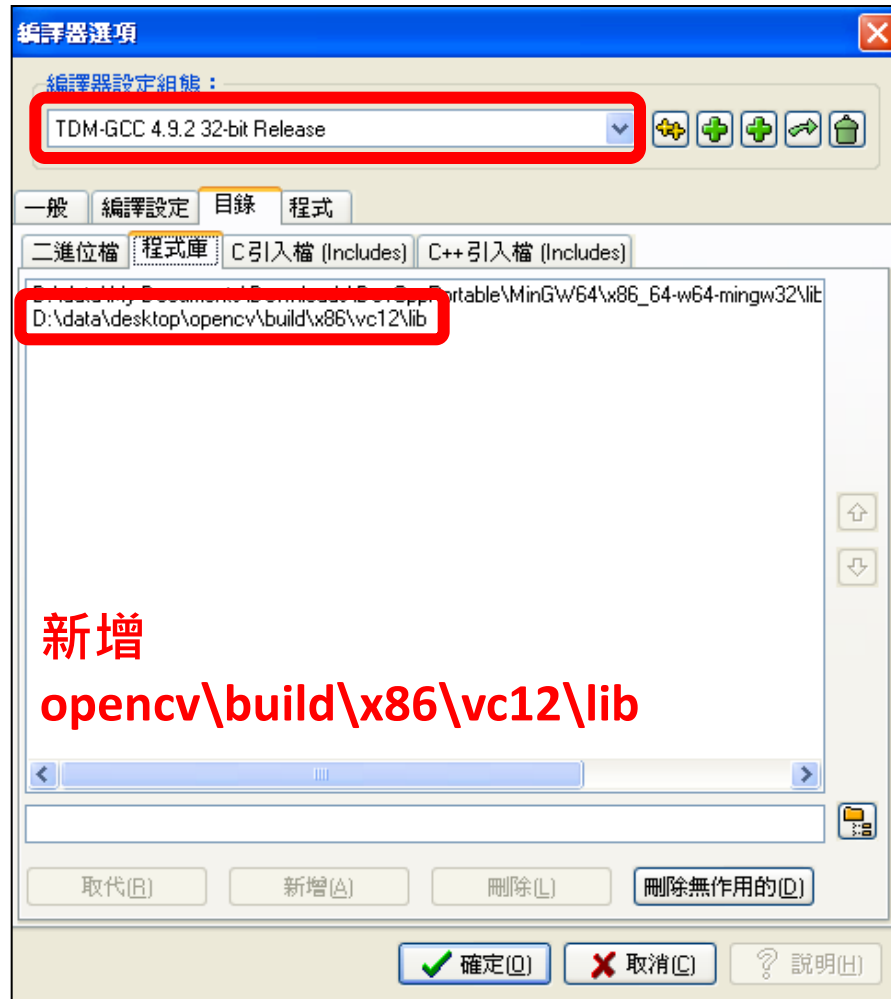
DevC++ > 工具 > 編譯器選項 > 目錄 > 二進位檔



# 二、設定編譯器(目錄)

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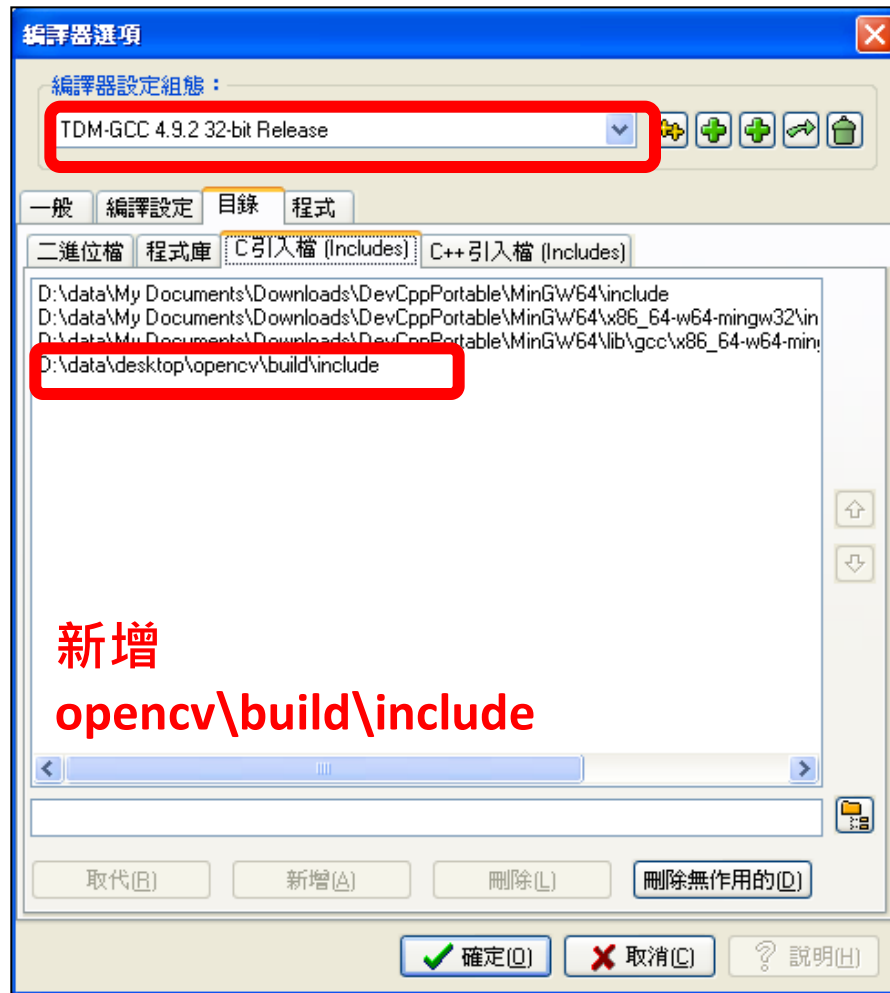
DevC++ > 工具 > 編譯器選項 > 目錄 > 程式庫



# 二、設定編譯器(目錄)

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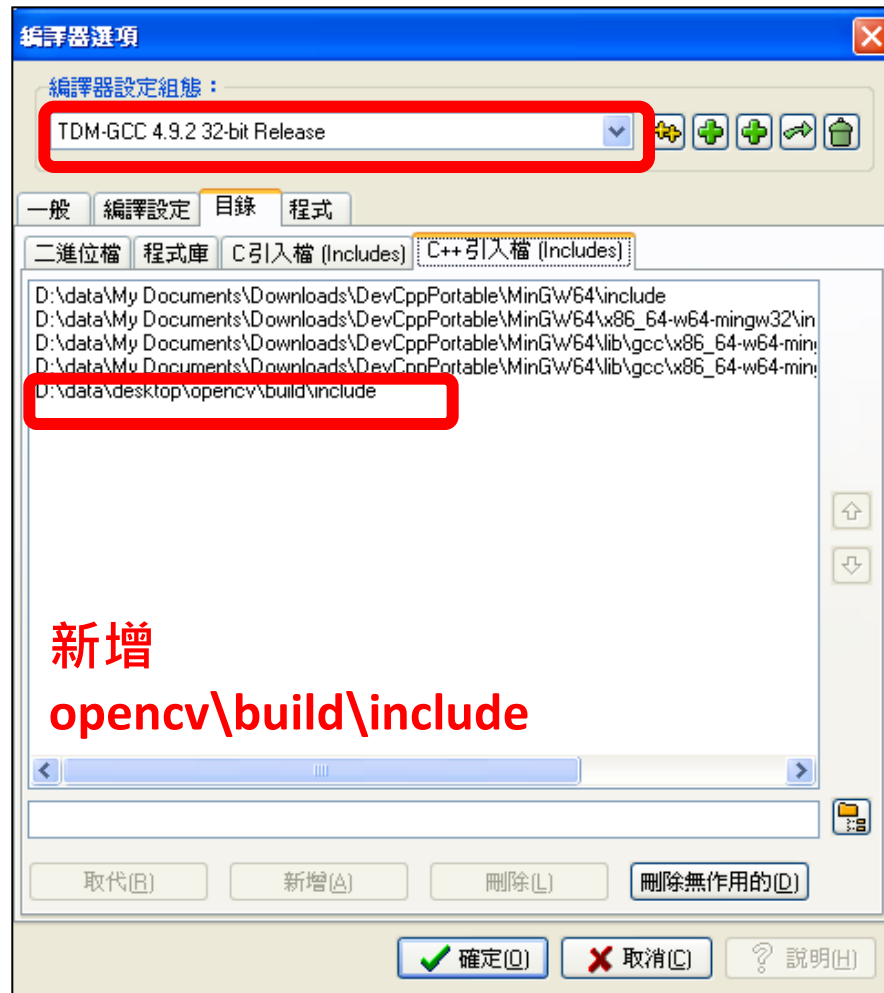
DevC++ > 工具 > 編譯器選項 > 目錄 > C引入檔



# 二、設定編譯器(目錄)

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DevC++ > 工具 > 編譯器選項 > 目錄 > C++引入檔

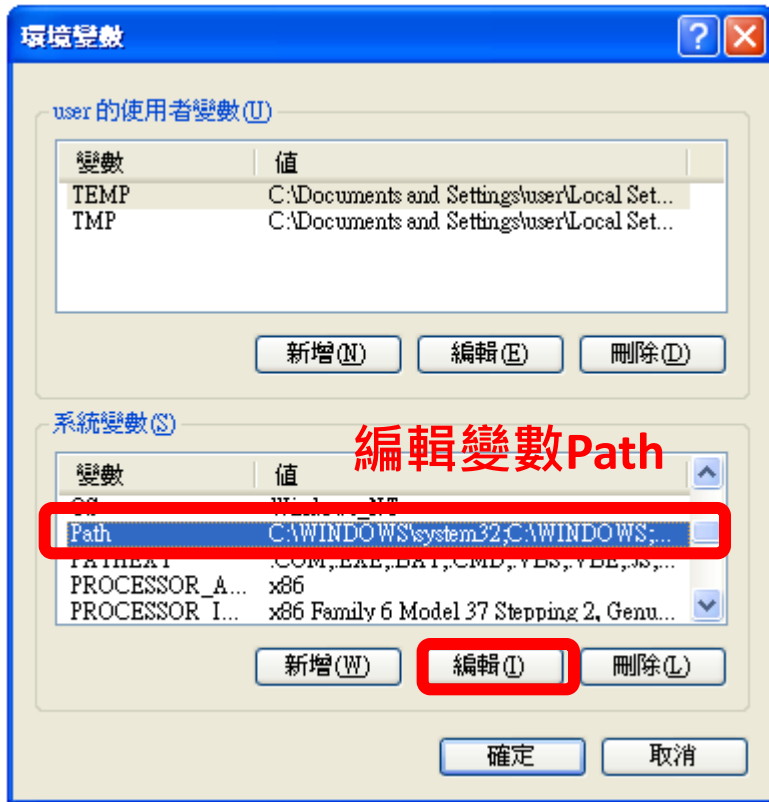


# 三、設定環境變數

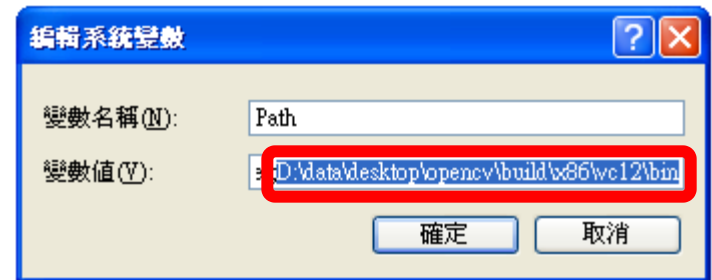
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## 方法一、

我的電腦 > 內容 > 進階 > 環境變數



加入 `opencv\build\x86\vc12\bin` 的絕對位置



附註：

1. 變數和變數間以;區隔
2. 會在下次啟動程式時生效



# 三、設定環境變數

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## 方法二、

直接把整個 `opencv\build\x86\vc12\bin` 裡面的檔案放到和 `C++` 程式碼同個資料夾下



# 四、測試範例檔

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```
#include "opencv2/opencv.hpp"
using namespace cv;
int main()
{
    IplImage *srcImg = NULL;
    srcImg = cvLoadImage( "lena.jpg", 1);
    if( srcImg == NULL )
        return -1;

    cvShowImage( "Source", srcImg );
    cvWaitKey(0);
    cvReleaseImage( &srcImg );
}
```



# opencv安裝教學

## --以python為例

安裝時記得勾選  
Add to Path

# 一、安裝python

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<https://www.python.org/downloads/>



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## Download the latest version for Windows

Download Python 3.6.0

Download Python 2.7.13

Wondering which version to use? [Here's more about the difference between Python 2 and 3.](#)

Looking for Python with a different OS? Python for [Windows](#), [Linux/UNIX](#), [Mac OSX](#), [Other](#)

Want to help test development versions of Python? [Pre-releases](#)

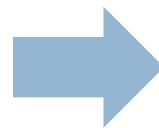
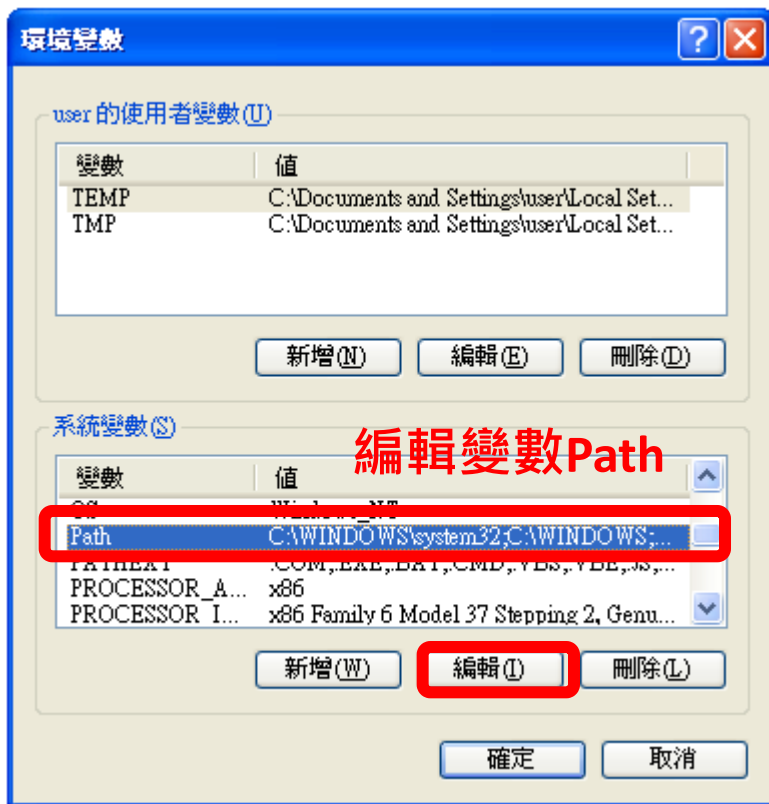


# 二、設定環境變數

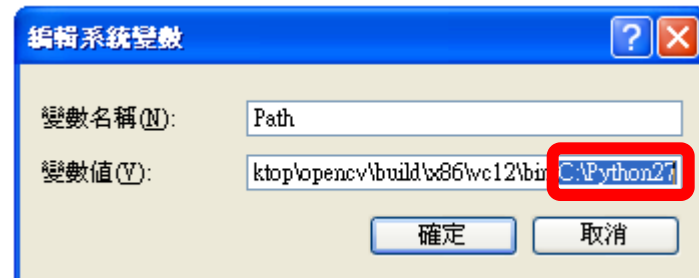
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若安裝Python時  
有勾選Add to Path  
可省略這步

我的電腦 > 內容 > 進階 > 環境變數



加入Python的絕對位置



附註：

1. 變數和變數間以;區隔
2. 會在下次啟動程式時生效

# 三、安裝pip

若安裝的是Python > 3.3  
則已內附pip，可省略這步

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<https://pip.pypa.io/en/latest/installing/>

## Installing with get-pip.py

To install pip, securely download [get-pip.py](#). <sup>[2]</sup> 下載

Then run the following:

```
python get-pip.py
```



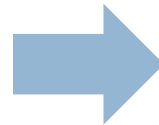
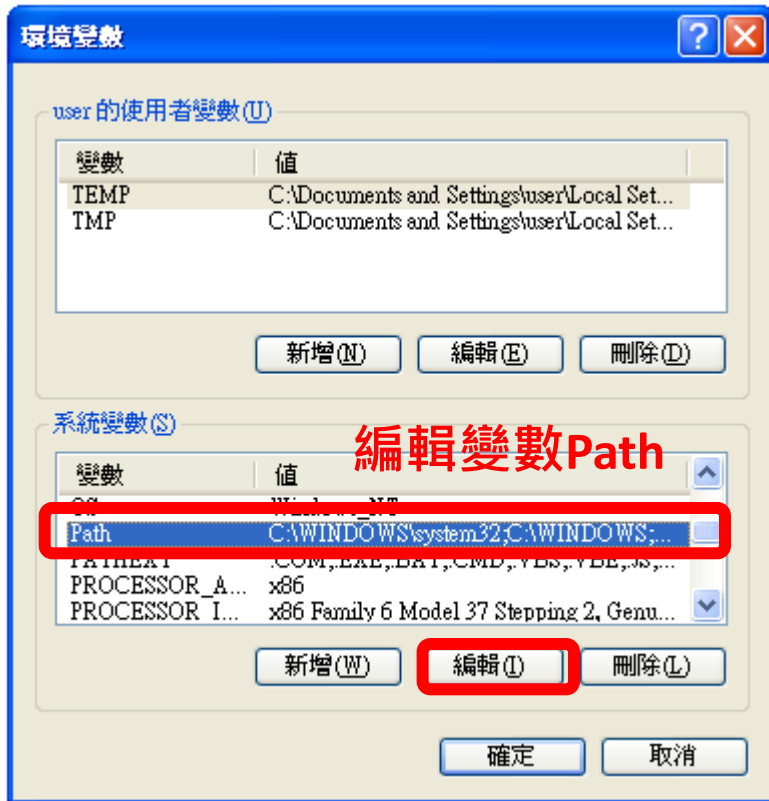
```
> python get-pip.py
```

在cmd下執行

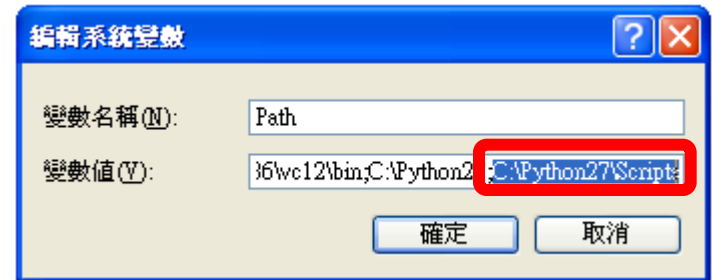
# 四、設定環境變數

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我的電腦 > 內容 > 進階 > 環境變數



加入Scripts的絕對位置



附註：

1. 變數和變數間以;區隔
2. 會在下次啟動程式時生效

# 五、安裝opencv

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```
> pip install opencv-python
```

在cmd下執行



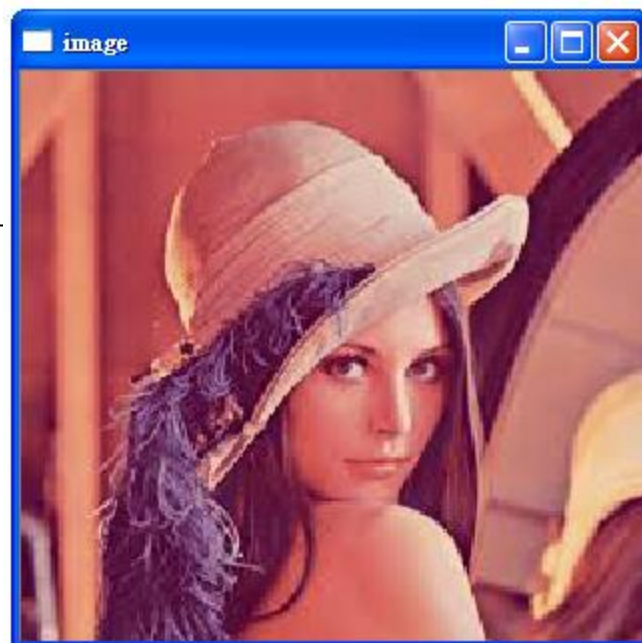


# 六、測試範例檔

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```
# coding=UTF-8
import cv2

#載入影像
img = cv2.imread('lena.jpg')
#建立視窗秀出影像
cv2.namedWindow('image', cv2.WINDOW_NORMAL)
cv2.imshow('image',img)
#等待任何key做結束
k = cv2.waitKey(0)
```



# 參考資料

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Dev-C++5.7.1 + OpenCV 2.4.8安裝

<https://ccw1986.blogspot.tw/2014/09/dev-c571-opencv-248-opencv-with-dev-c.html>

How to install OpenCV in Python

<http://arbu00.blogspot.tw/2016/10/opencv1-how-to-install-opencv-in-python.html>

在Windows下安裝pip

<https://www.jerryneat.com/windows-install-pip/>