**ubuntu 18.04安装opencv3.1.0**

[**Ubuntu**](https://pythontechworld.com/article/tag/ubuntu) [**Opencv**](https://pythontechworld.com/article/tag/opencv)

**1、下载opencv3.1.0.zip**

<https://opencv.org/releases.html>

**2、上传解压zip文件**

**3. 进入源码目录，创建release目录**

cd opencv-3.1.0

mkdir release

**4、安装依赖包**

**依赖包说明**

* GCC 4.4.x or later
* CMake 2.6 or higher
* Git
* GTK+2.x or higher, including headers (libgtk2.0-dev)
* pkg-config
* Python 2.6 or later and Numpy 1.5 or later with developer packages (python-dev, python-numpy)
* ffmpeg or libav development packages: libavcodec-dev, libavformat-dev, libswscale-dev
* [optional] libtbb2 libtbb-dev
* [optional] libdc1394 2.x
* [optional] libjpeg-dev, libpng-dev, libtiff-dev, libjasper-dev, libdc1394-22-dev

**依赖包命令**

其中下载libjasper-dev会报错，以下是解决方法。

sudo add-apt-repository "deb http://security.ubuntu.com/ubuntu xenial-security main"

sudo apt update

sudo apt install libjasper1 libjasper-dev

The packages can be installed using a terminal and the following commands or by using Synaptic Manager:

[compiler] sudo apt-get install build-essential # 　后面选择的时候选择Yes

[required] sudo apt-get install cmake git libgtk2.0-dev pkg-config libavcodec-dev libavformat-dev libswscale-dev

[optional] sudo apt-get install python-dev python-numpy libtbb2 libtbb-dev libjpeg-dev libpng-dev libtiff-dev libjasper-dev libdc1394-22-dev

**5. 进入release目录**

安装OpenCV时，所有的文件都会被放到这个release目录下

cd release

**6. cmake编译OpenCV源码**

编译之后如果报错:/usr/include/c++/7/cstdlib:75:15: fatal error: stdlib.h: No such file or directory,以下是解决方法:

**原因分析：**  
这是由于gcc7已经吧stdlib.h纳入了libstdc++以进行更好的优化，C Library的头文件stdlib.h使用 Include\_next，而include\_next对gcc系统头文件路径很敏感。

推荐的修复方法是不要把include路径作为系统目录，而是使用标准方式包含include 目录

**解决方法：**  
在编译opecv-3.1.0时，加入如下选项：

-DENABLE\_PRECOMPILED\_HEADERS=OFF

安装所有的lib文件都会被安装到/usr/local/opencv2.4.10目录下

cmake -D CMAKE\_BUILD\_TYPE=RELEASE -DENABLE\_PRECOMPILED\_HEADERS=OFF -D CMAKE\_INSTALL\_PREFIX=/usr/local ..

**7.安装**

1. make -j4
2. sudo make install -j4

　j4代表4个进程一起

**8,测试代码:**

**如果要链接库，opencv的库在/usr/local/lib，**

void openPicture(){

Mat myMat= imread("test.jpeg",0);

imshow("window",myMat);

}