Install OpenCV on Ubuntu or Debian

Install OpenCV on Ubuntu or Debian is a bit long but very easy. You can install OpenCV from the Ubuntu or Debian repository or from the official site.

## OPTION 1: INSTALL OPENCV FROM THE UBUNTU OR DEBIAN REPOSITORY

You can install OpenCV from the Ubuntu or Debian repository:

```
sudo apt-get install libopencv-dev python3-opencv
```

However, you will probably not have installed the latest version of OpenCV and you may miss some features.

## OPTION 2: INSTALL OPENCV FROM THE OFFICIAL SITE

To install the latest version of OpenCV be sure that you have removed the library from the repository with `sudo apt-get autoremove libopencv-dev python-opencv` and follow the steps below.

### 2.1. RUN AN INSTALLATION SCRIPT

The most simple and elegant way to install a library is running an installation script.

Download the installation script ***install-opencv.sh***, open your terminal and execute:

```
bash install-opencv.sh
```

Type your *sudo* password and you will have installed OpenCV. This operation may take a long time due to the packages to be installed and the compilation process.

### 2.2. EXECUTE SOME OPENCV EXAMPLES

Go to your OpenCV directory and execute a **C++** example:

```
cd build/bin

./example_cpp_edge ../../samples/data/fruits.jpg
```

Now, go to your OpenCV directory and execute a **Python** example:

```
cd samples/python

python3 video.py
```

Finally, go to your OpenCV directory and execute a **Java** example:

```
cd samples/java/ant
```

```
ant -DocvJarDir=../../../build/bin -
DocvLibDir=../../../build/lib
```

### 2.3. COMPILE A DEMONSTRATION

Download the files ***demo.cpp*** and ***CMakeLists.txt*** and put them into a folder. Now, open your terminal, go to the folder and execute:

```
mkdir build && cd build && cmake .. && make
```

Finally, run the demo: `./demo`.

And that's it! You have installed OpenCV, run some examples, and compiled OpenCV code!

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