## Manual installation (On Raspbian Jessie/Stretch)

1. Install the dependencies:

sudo apt-get update  
sudo apt-get install libsdl2-dev libsdl2-image-dev libsdl2-mixer-dev libsdl2-ttf-dev \  
 pkg-config libgl1-mesa-dev libgles2-mesa-dev \  
 python-setuptools libgstreamer1.0-dev git-core \  
 gstreamer1.0-plugins-**{**bad**,**base**,**good**,**ugly**}** \  
 gstreamer1.0-**{**omx**,**alsa**}** python-dev libmtdev-dev \  
 xclip xsel

1. Install a new enough version of Cython:

sudo pip install -U Cython==0.28.2

1. Install Kivy globally on your system:

sudo pip install git+https**:**//github.com/kivy/kivy.git@master

1. Or build and use kivy inplace (best for development):

git clone https**:**//github.com/kivy/kivy  
cd kivy  
  
make  
echo "export PYTHONPATH=$(pwd):\$PYTHONPATH" >> ~/.profile  
source ~/.profile

Note

On versions of kivy prior to 1.10.1, Mesa library naming changes can result in “Unable to find any valuable Window provider” errors. If you experience this issue, please upgrade or consult [ticket #5360.](https://github.com/kivy/kivy/issues/5360)