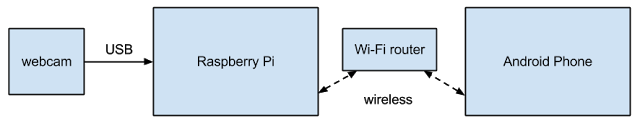
URL : <http://sanjosetech.blogspot.com/2013/03/web-cam-streaming-from-raspberry-pi-to.html>

I tried to stream video from webcam connected with Raspberry Pi to Android phone.

[](http://4.bp.blogspot.com/-9vF9cYsR92Y/Ubapfpu36vI/AAAAAAAAANE/_2UJe4K8sTc/s1600/Hardware+Block+Diagram.png)

**Hardware**

webcam : [PS3 Eye](http://www.amazon.com/gp/product/B000VTQ3LU/ref=as_li_qf_sp_asin_il_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=%20B000VTQ3LU&linkCode=as2&tag=sajote-20)

Raspberry Pi : [Raspberry Pi Model B Revision 2.0](http://www.amazon.com/gp/product/B009SQQF9C/ref=as_li_qf_sp_asin_il_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=%20B009SQQF9C&linkCode=as2&tag=sajote-20)  
Wi-Fi dongle : [Edimax EW-7811Un 150 Mbps Wireless](http://www.amazon.com/gp/product/B003MTTJOY/ref=as_li_qf_sp_asin_il_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=B003MTTJOY&linkCode=as2&tag=sajote-20)

Android Phone : [Motorola RAZR XT912](http://www.amazon.com/gp/product/B008XLJ22A/ref=as_li_qf_sp_asin_il_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=B008XLJ22A&linkCode=as2&tag=sajote-20)

**Set up Raspberry Pi**

**Install gstreamer**

Update your Raspbian before install gstreamer packages.

sudo apt-get upgrade  
sudo apt-get update

Install gstreamer packages.

sudo apt-get install gstreamer-tools gstreamer0.10-plugins-bad gstreamer0.10-plugins-good v4l-utils

**Create gstreamer start script**

I like tcsh shell.

sudo apt-get install tcsh

Create the script *gst-server.sh* to start gstreamer streaming server.

#!/bin/tcsh  
  
set myip=192.168.0.103  
set port=5000  
set width=320  
set height=240  
  
gst-launch\  
  v4l2src !\  
  ffmpegcolorspace !\  
  video/x-raw-yuv,width=${width},height=${height},framerate=\(fraction\)30/1 !\  
  jpegenc !\  
  tcpserversink host=${myip} port=${port} sync=false

 Add an executable permission to the script.

chmod u+x gst-server.sh

**Connect a webcam**

I used PS3 Eye as a webcam. You can use other webcams.

**Start gstreamer**

Run the script.

./gst-server.sh

**Set up Android phone**

I created an Android application [simplemjpegview\_gst](https://bitbucket.org/coisme/simplemjpegview_gst/wiki/Home) based on [SimpleMjpegStreamer](https://bitbucket.org/neuralassembly/simplemjpegview). You can download the source codes.  
  
You can download apk file here.  
<https://docs.google.com/file/d/0B1V8jj4Adbrpdzl4VGVjcW1GT28/edit?usp=sharing>