
SVFIG Hangouts

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Fn-Win-Space

I had to find this for my Surface 4 computer, which isn't that same as my Surface 2 Pro.

Figure 1. Fn-Win-Space

The screenshot shows a web browser window on a Windows 8 Surface Pro 3. The URL in the address bar is superuser.com/questions/771979/surface-pro-3-print-screen. The page content is a question about using the Fn key instead of the Windows key to prevent the start screen from appearing. The answer by user2831705, which includes a tip about using a type cover, has 5 upvotes and was answered on October 9, 2014, at 8:38. The interface includes standard Superuser.com navigation and search bars.

I would like to add you can also use the pen to take a screen capture because of OneNote. – [Ramhound](#) [Sep 16 '14 at 10:47](#)

[add a comment](#)

8 Answers

active oldest [View](#)

using my type cover, Fn-Win-Space works for me. Starting with Fn instead of the Windows key prevents the start screen from appearing.
5 share improve this answer

answered Oct 9 '14 at 8:38
 user2831705
51 • 1 • 2

Camera Setup

I use my Samsung Galaxy S5 Active mounted in Kickstarter version of the Beastgrip (<https://beastgrip.com/>). This allows me to add a zoom lens, which I haven't been able to afford yet, but also gives nice mounting holes for a tripod. Here's an interesting alternative for a camera: <http://www.motorola.com/us/products/moto-mods/hasselblad-true-zoom>

Figure 2. Camera

Using a tripod gets the camera angle up high enough to eliminate most of the parallax when displaying the projector screen, but it also eliminates the reflexion of the lights on the white board.

Figure 3. Camera

Stanford Projector

Panasonic PT-DW6300, the specified resolution is "WXGA 1280 X 800" <https://www.projector-central.com/Panasonic-PT-DW6300US.htm>

Video Modes: 720p, 1080i, 1080p/60, 1080p/24, 1080p/25, 1080p/30, 1080p/50, 1035i, 525i, 525p, 576i, 576p, 625i, 625p, 1125i, 480p, 480i

The projector, as it turns out, has a little HDMI to twisted pair(DTP) adapter box and that's what the HDMI wall plug is talking to. There also appears to be a HDMI to DVI or VGA transition taking place.

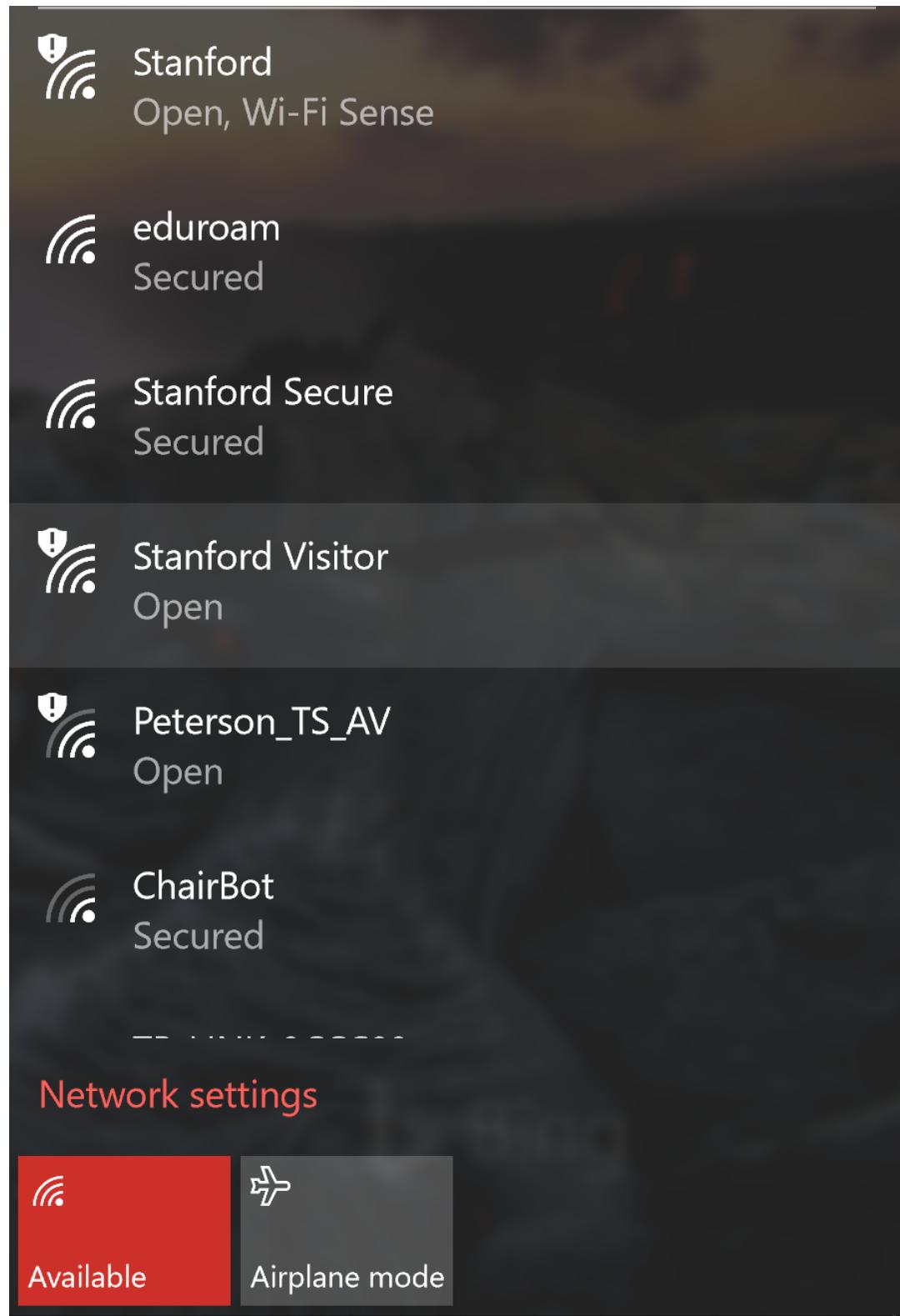
When Kevin plugged his laptop into the HDMI, the laptop display resolution was set to 1280 x 800 with no options.

When connecting to the VGA wallplug, the EDID that his laptop saw comes up as "DW6300" or something like that, presumably straight from the projector. When connecting to the HDMI wall plug, his laptop reports "Extron" from the DTP-HDMI transmitter/receiver or the HDMI-DVI adapter.

Stanford Visitor

Choose the Stanford Visitor access point to avoid the 4 hour limit on the Stanford access point. However, Dave Jaffe says that the 4 hour timeout can be forced to re-register at: <http://snsr.sunet.stanford.edu/snsr/intro>.

Figure 4. Stanford Visitor



Wireless Visitor

Accept the Terms and Conditions.

Figure 5. Wireless Visitor

The image shows a screenshot of a web page titled "Wireless Visitor Service". At the top, there is a red header bar with the Stanford University logo. Below the header, the title "Wireless Visitor Service" is displayed in a large, bold, dark red font. Underneath the title, the section "Terms and Conditions" is shown in bold black text. A descriptive paragraph follows, stating: "You are about to log into the Stanford Guest Network, from which you can access email and browse the web. Use of this network must be in compliance with Stanford Administrative Guide 6.2.1". Another paragraph notes: "Note that this network can log network information, so you should not consider your use of this network to be anonymous. This network has limited bandwidth capacity and limited internet services so that, for example, file-sharing and other resource-intensive services will not be functional." At the bottom of the page, there are two large, light gray rectangular buttons with rounded corners. The top button is labeled "Accept" and the bottom button is labeled "Reject". Below these buttons, a small copyright notice reads: "© Stanford University. All Rights Reserved." At the very bottom of the page, there is a link: "Read the Stanford Administrative Guide 6.2.1 Computer and Network Usage Policy".

You're Connected

You should now be connected and you can close this window.

Figure 6. You're Connected

You're connected!

You have access to the Internet through the Stanford Visitor network.

Restrictions

The Stanford Visitor network has the following restrictions:

- Maximum download speed: 5 Mbps
- No access to Stanford IP restricted resources (such as databases & journals)
- Limited network services

Other networks

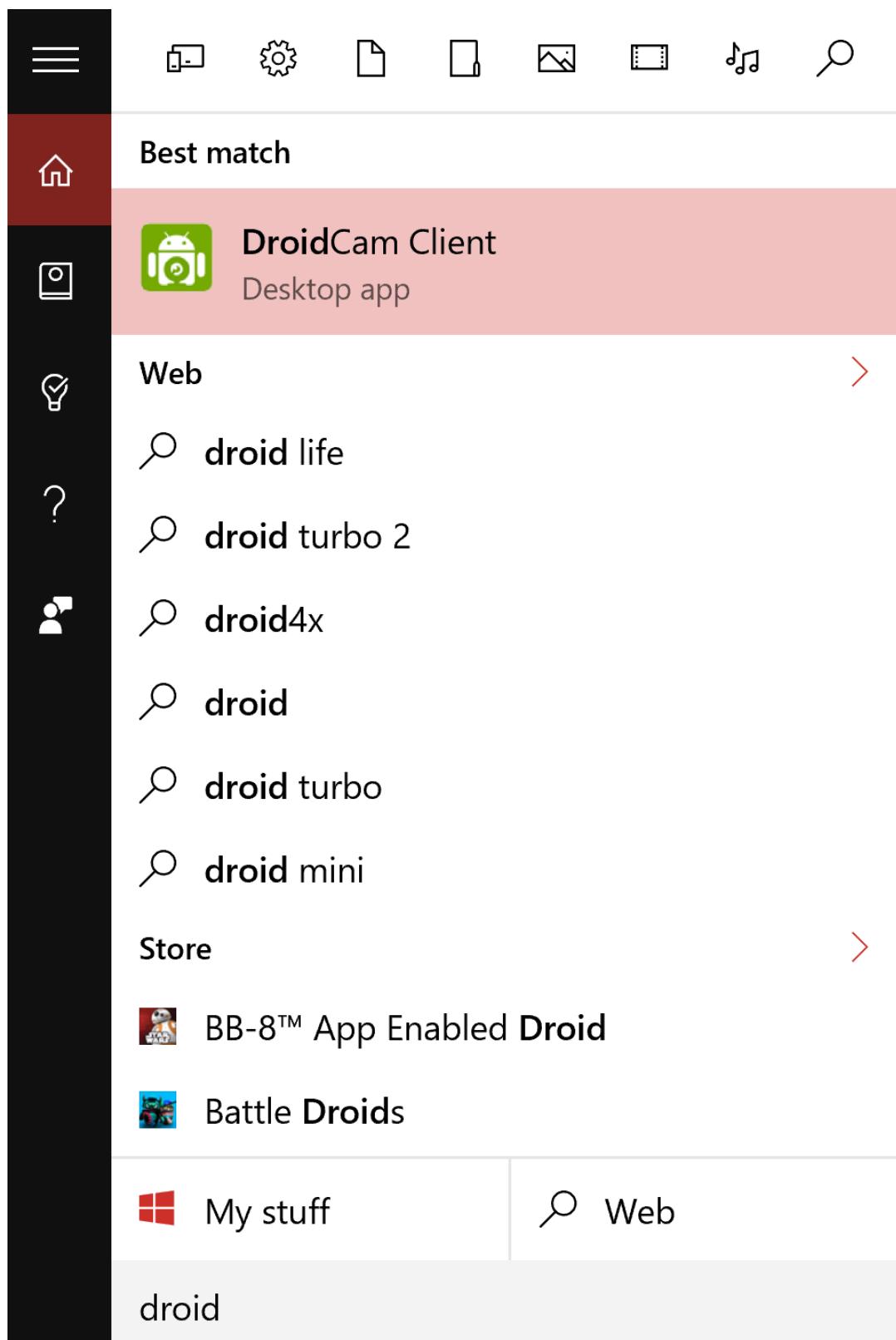
If you belong to one of the groups listed below, use the corresponding wireless network for that group (identified by its SSID in your wireless networks list).

Note: To use another network, you may need to register with it.

Group	SSID
Stanford students	Stanford Residences
Stanford faculty/staff	Stanford
Visitors from Eduroam institutions	Eduroam

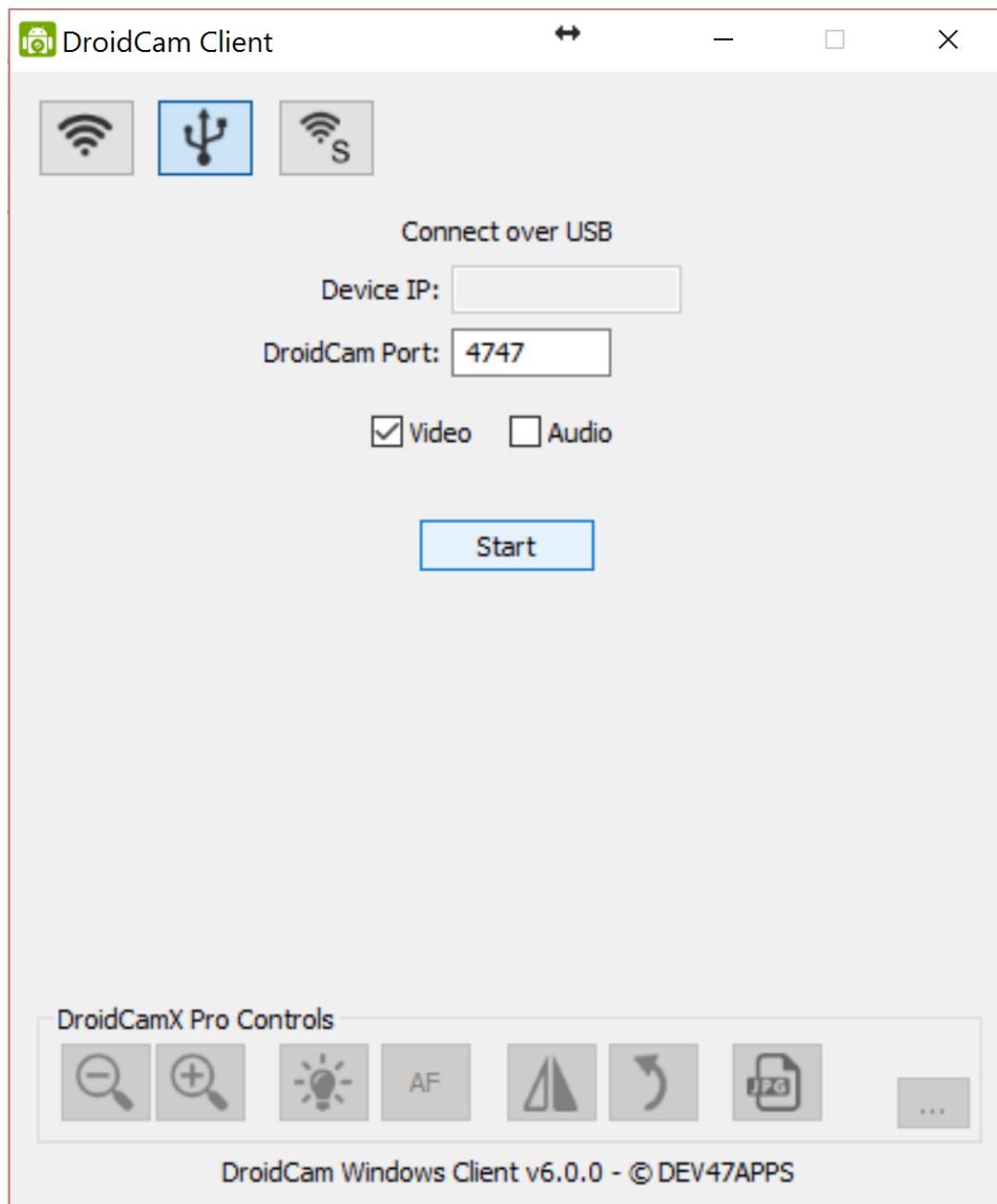
DroidCam Client

Start up the Droid Cam Client that will communicate with my Android phone's camera.

Figure 7. DroidCam Client

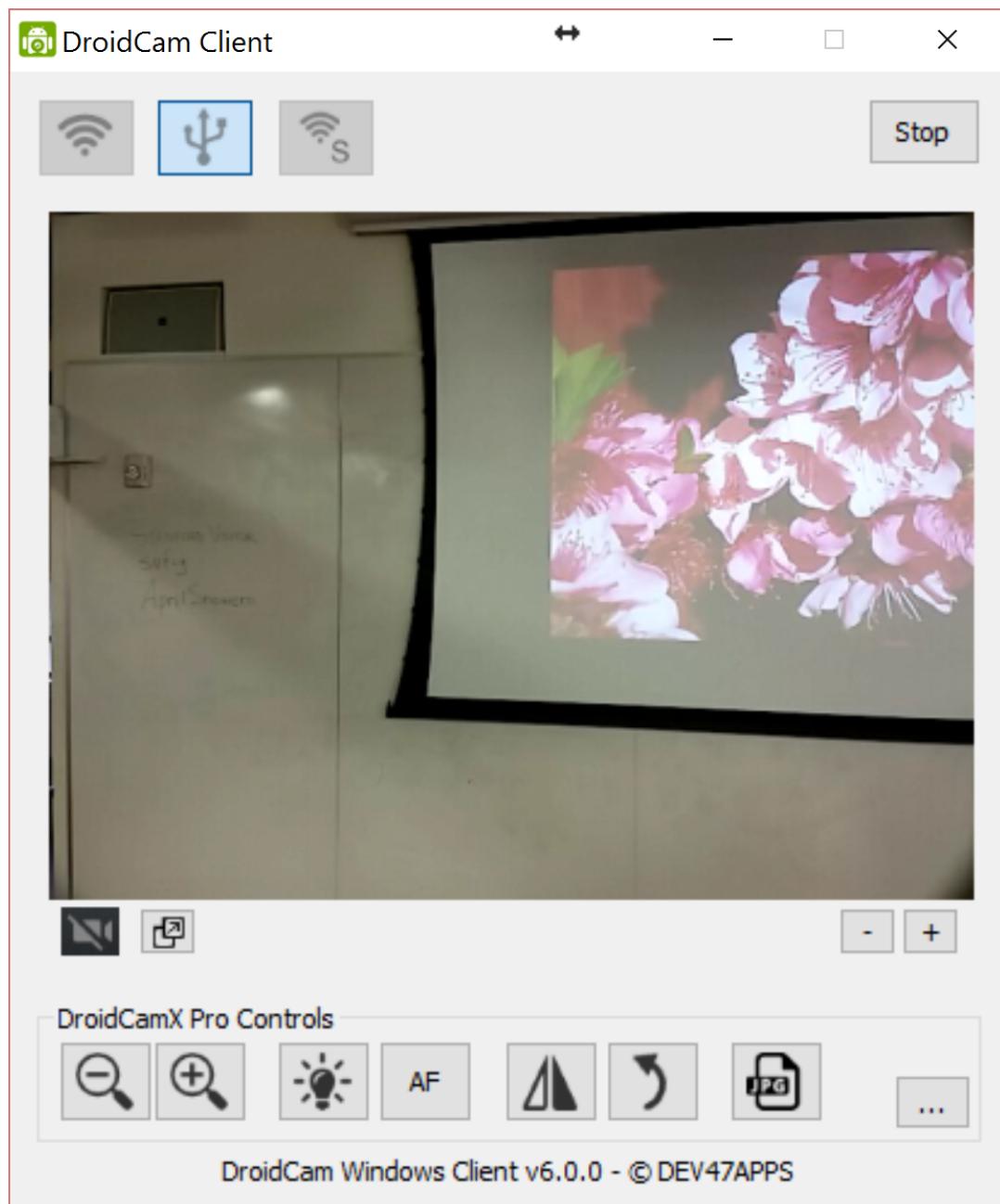
DroidCam Client USB

Tell it to start up the wired USB connection, to avoid any additional wireless traffic.

Figure 8. DroidCam Client USB

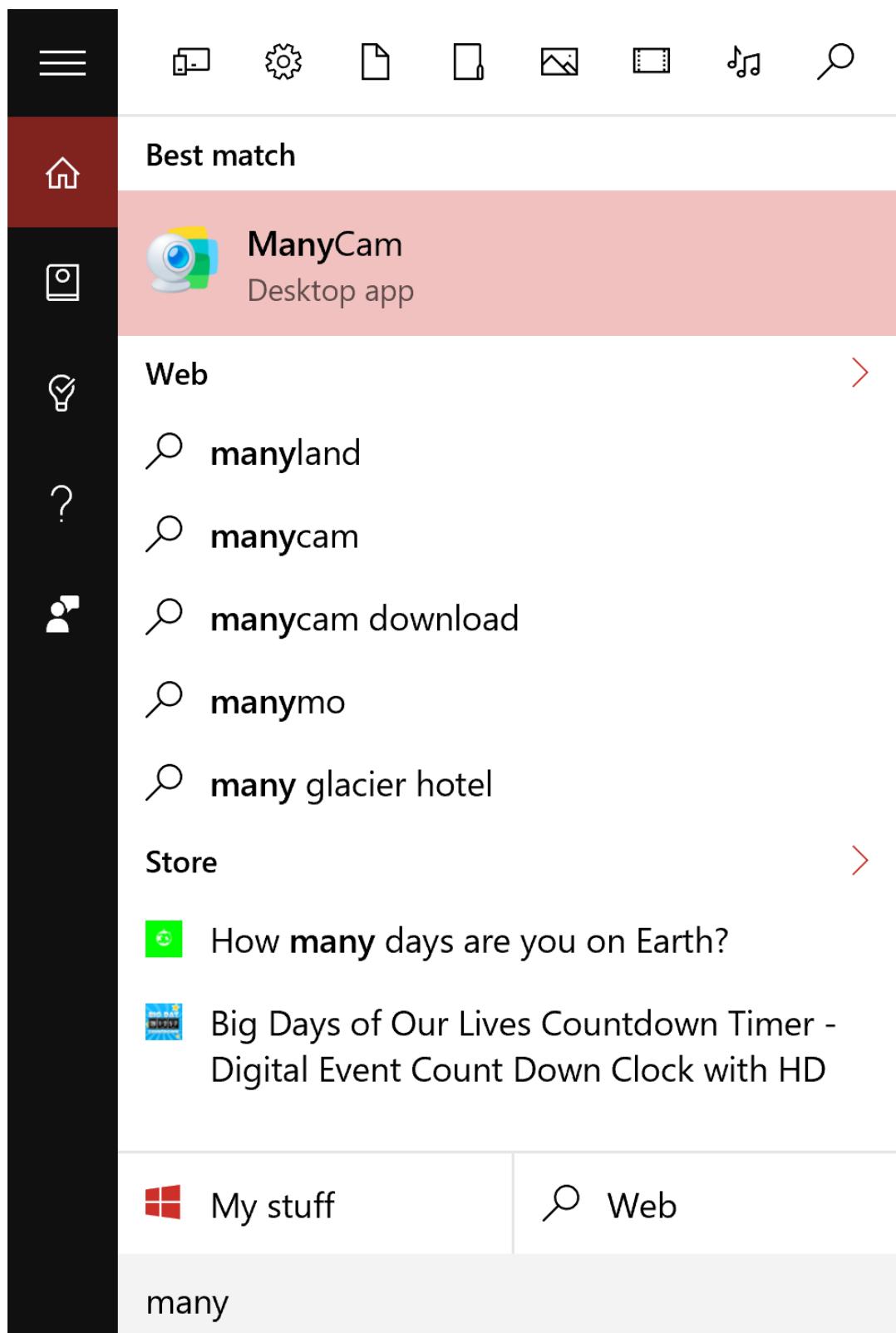
DroidCamX Pro Controls

This gives you the 1st preview of the camera's viewing angle. Using the X Pro version gives more resolution and controls and I **HIGHLY** recommend paying the \$4.95 for it. At this point, you can also turn on Airplane Mode on your phone to turn off all of the high power radios. This is also **HIGHLY** recommended because the 500 ma charge you get from your computer will probably not keep up with the camera sending high speed video over the USB port and your phone's battery will die in the middle of the broadcast. This is highly undesirable! Speaking from experience.

Figure 9. DroidCamX Pro Controls

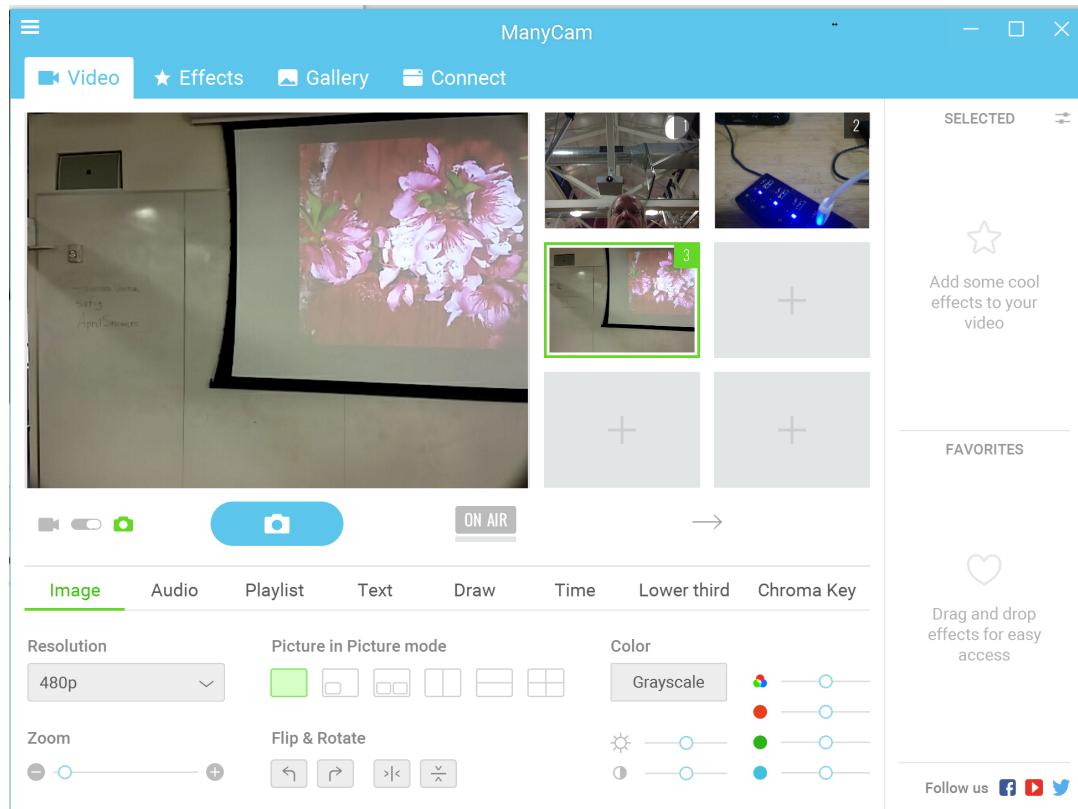
ManyCam.png

Start up the Many Cam app that will communicate with Google Hangouts. Originally, the was required for compatibility with the Hangout, but it might be just an extra step, at this point. Still, the extra camera controll and effects might also be useful, some day.

Figure 10. ManyCam.png

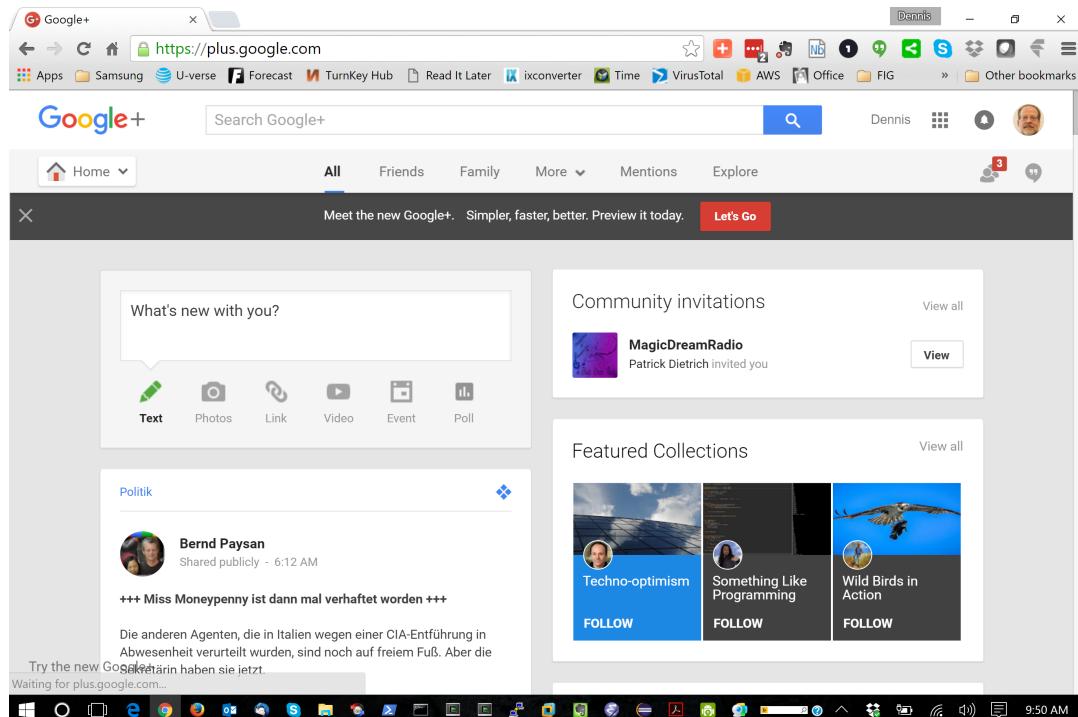
ManyCam Controls

I have all of my cameras turned on, but "cut" over to the DroidCam, almost all of the time.

Figure 11. ManyCam Controls

plus.google.com

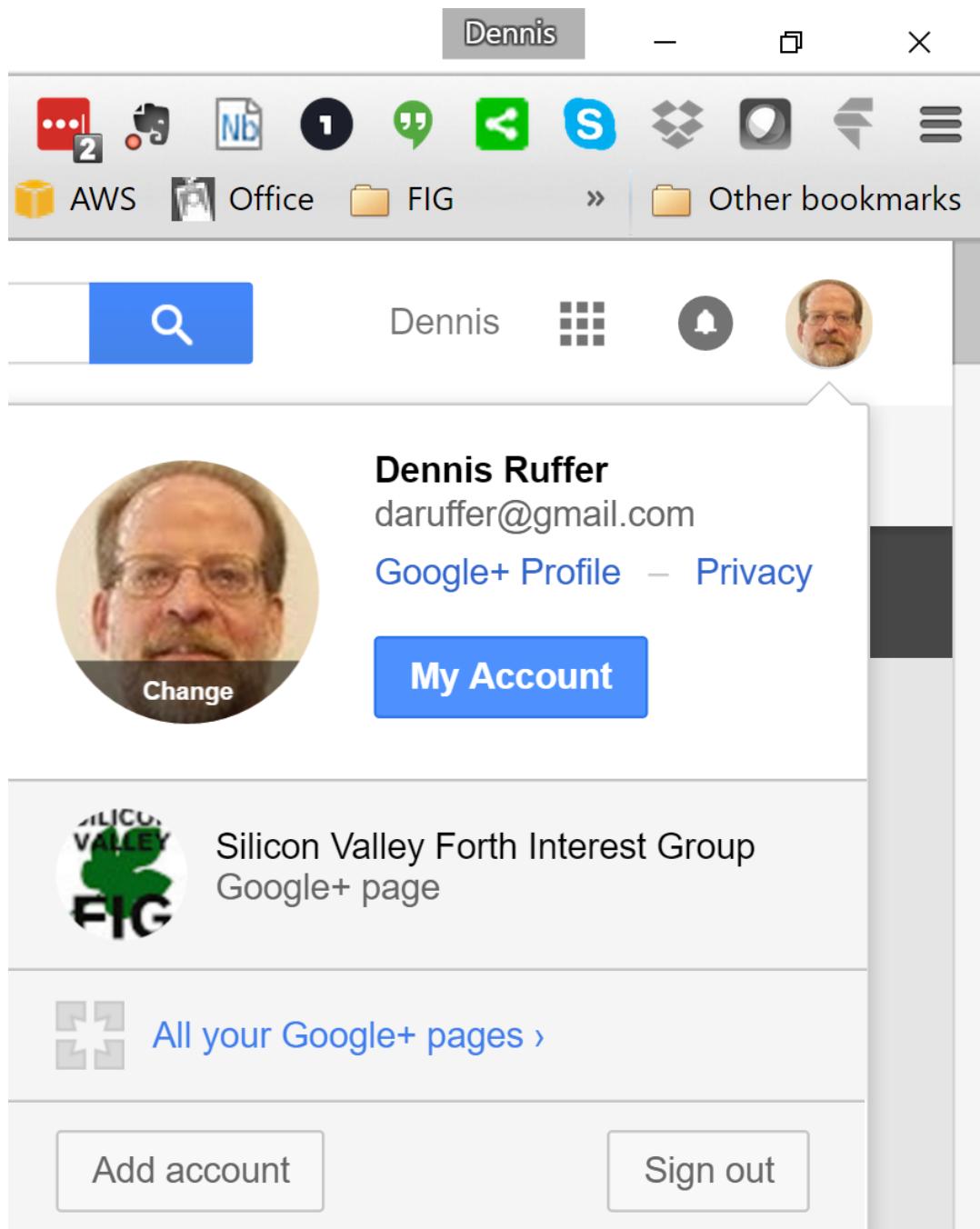
Open a web browser (I use Chrome) to Google plus.

Figure 12. plus.google.com

Silicon Valley Forth Interest Group

Switch over to the SVFIG account, rather than my personal one, so the announcement comes out from that organization.

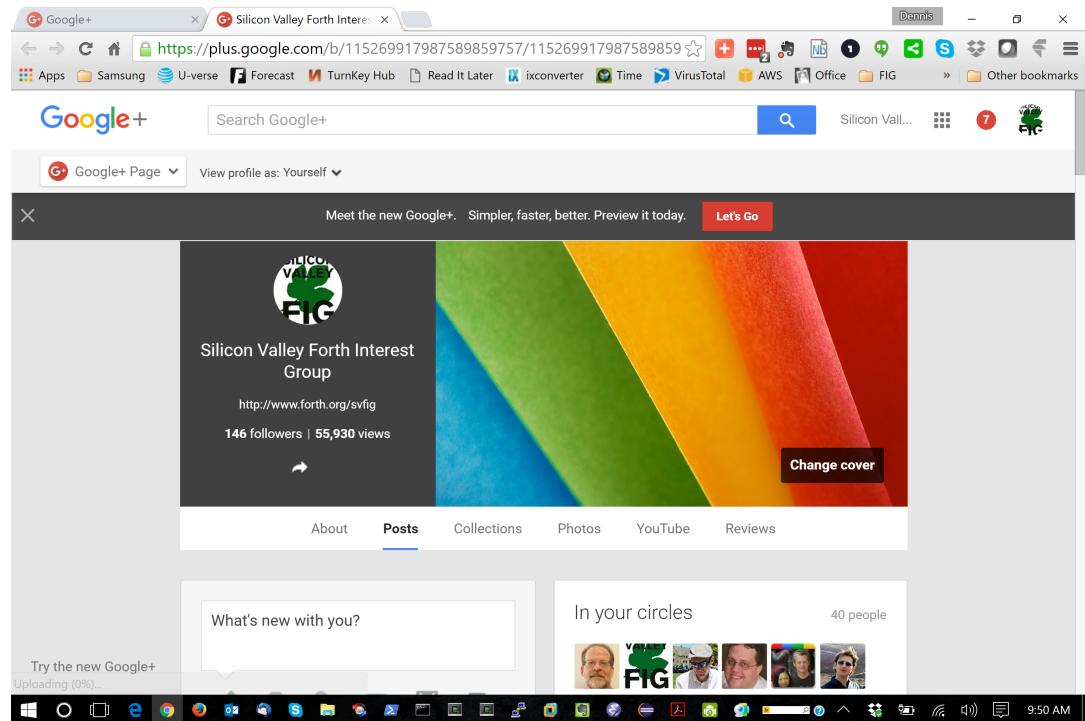
Figure 13. Silicon Valley Forth Interest Group



SVFIG Google Plus

Pull down the Google+ Page tab.

Figure 14. SVFIG Google Plus



Google Hangouts

And select Hangouts.



People



Collections



Communities



Events



Hangouts



All Pages



Settings

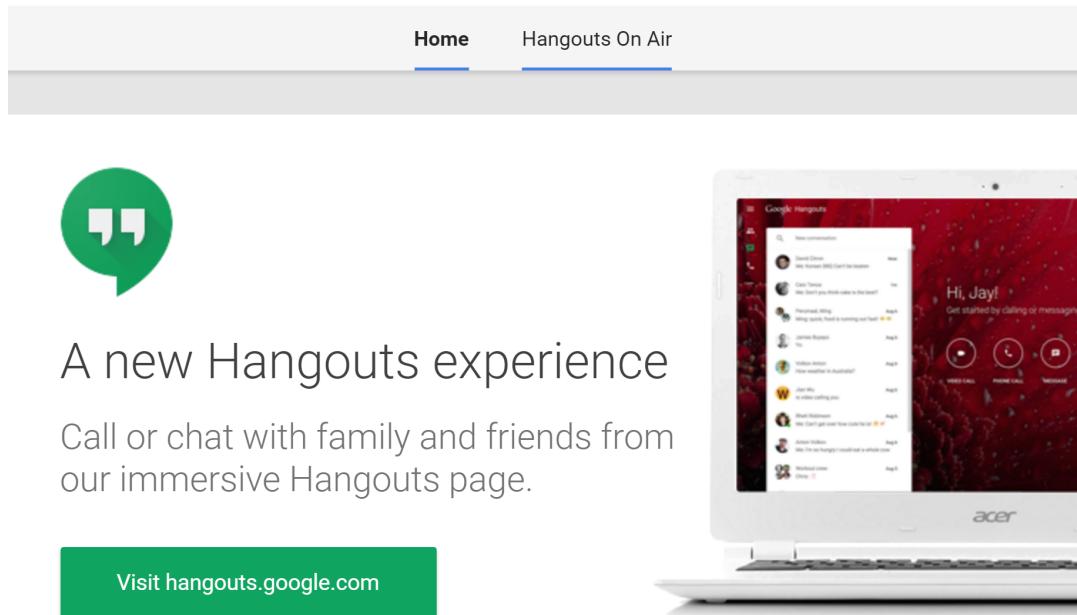
Feedback

Help · Region

Hangouts On Air

Select the Hangouts On Air tab.

Figure 16. Hangouts On Air



Hangouts On Air is moving

Noticed this little wrinkle and 1st impressions are not good. So far, the biggest missing piece is guest speaker access, but we will figure this out and I will document it as best that I can.

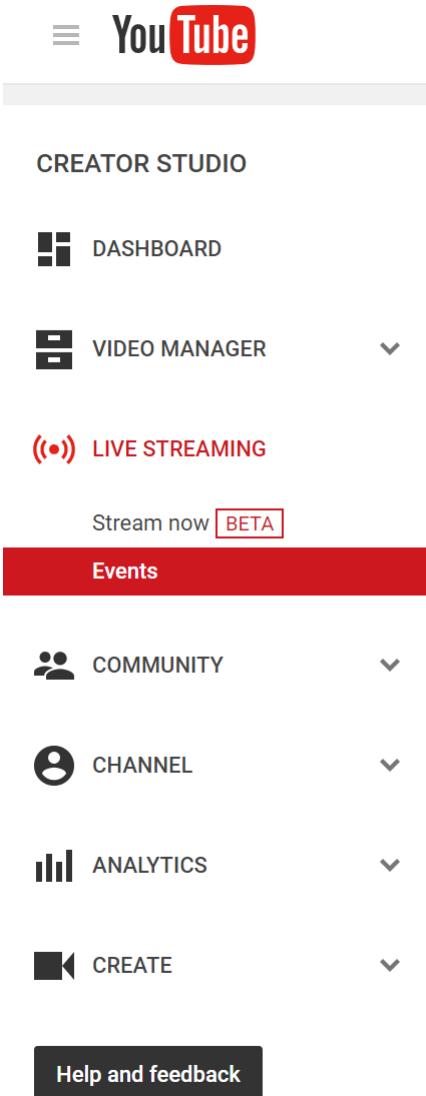
Figure 17. Hangouts On Air is moving

Hangouts On Air is moving to YouTube Live

Hangouts On Air will no longer be available on Google+ starting September 12th, 2016. See [Help Center](#) for more details on how to prepare.

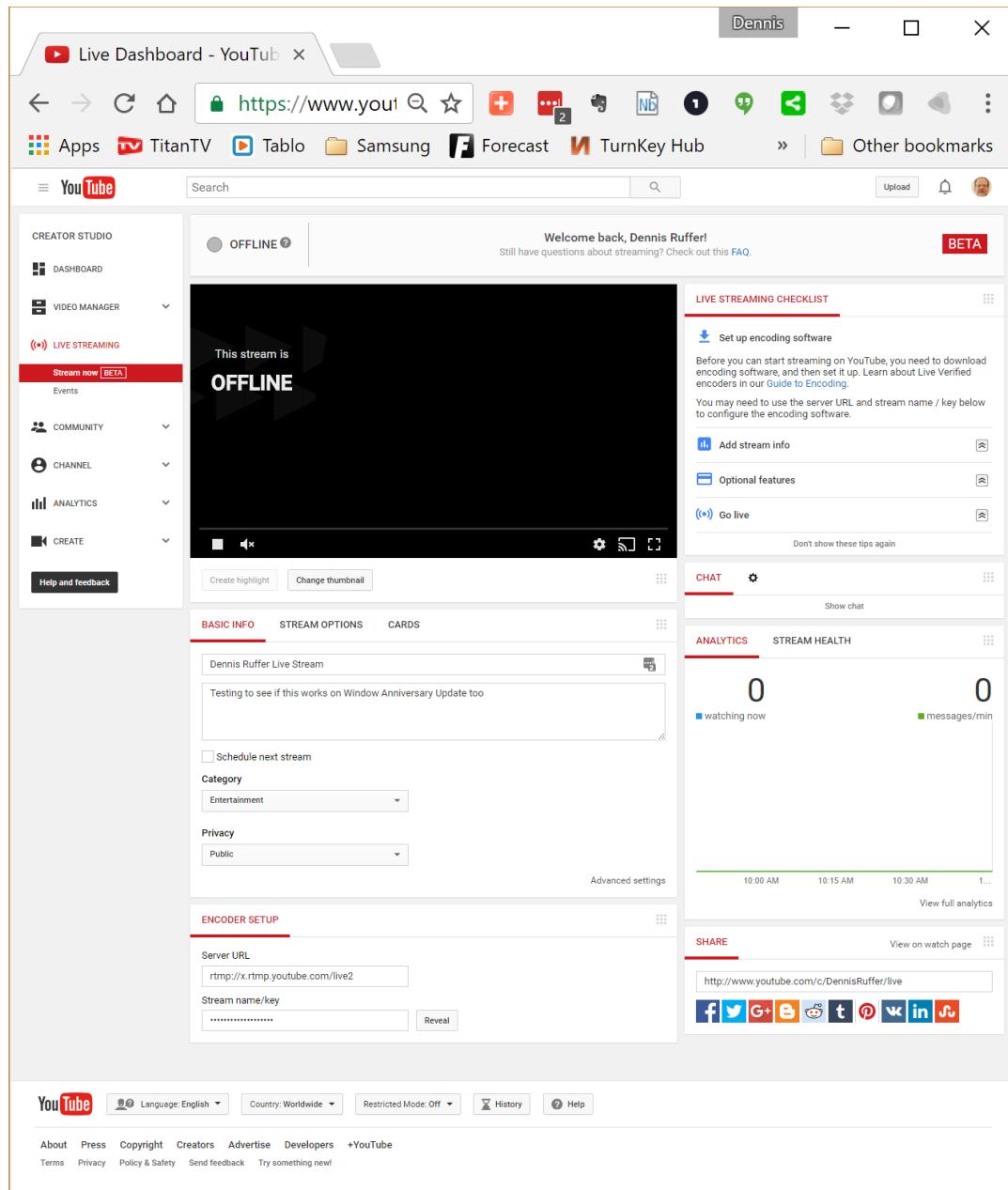
YouTube Live

So, what is this new/old thing? We start here: https://www.youtube.com/my_live_events in the Creator Studio. I have already have a whole bunch of Live Streaming Events (Live Now, Upcoming and Completed), which I can do various Actions to, but we'll have to study that further, someday.

Figure 18. Creator Studio

Live Dashboard

This is where most of the activity exists: https://www.youtube.com/live_dashboard. Again, there's a lot to discover here, but we are trying to keep this moving, and this is pointing to an old Live Stream that I setup when I 1st learned of this change.

Figure 19. Live Dashboard

OBS Studio

If you can read it, the previous screen mentions that you need to "Set up encoding software" with a "Guide to Encoding" link <https://support.google.com/youtube/answer/2907883?hl=en>. There, under "Other Encoders", I found the link to "Open Broadcaster Software" <https://obsproject.com/>, a "free and open source software for video recording and live streaming". I can setup the "Video Capture Device" as the "ManyCam Virtual Webcam" and continue using that approach, or figure out how to control multiple Scenes and Devices in OBS Studio. For the moment, it doesn't matter much

Figure 20. OBS Studio (64-bit)

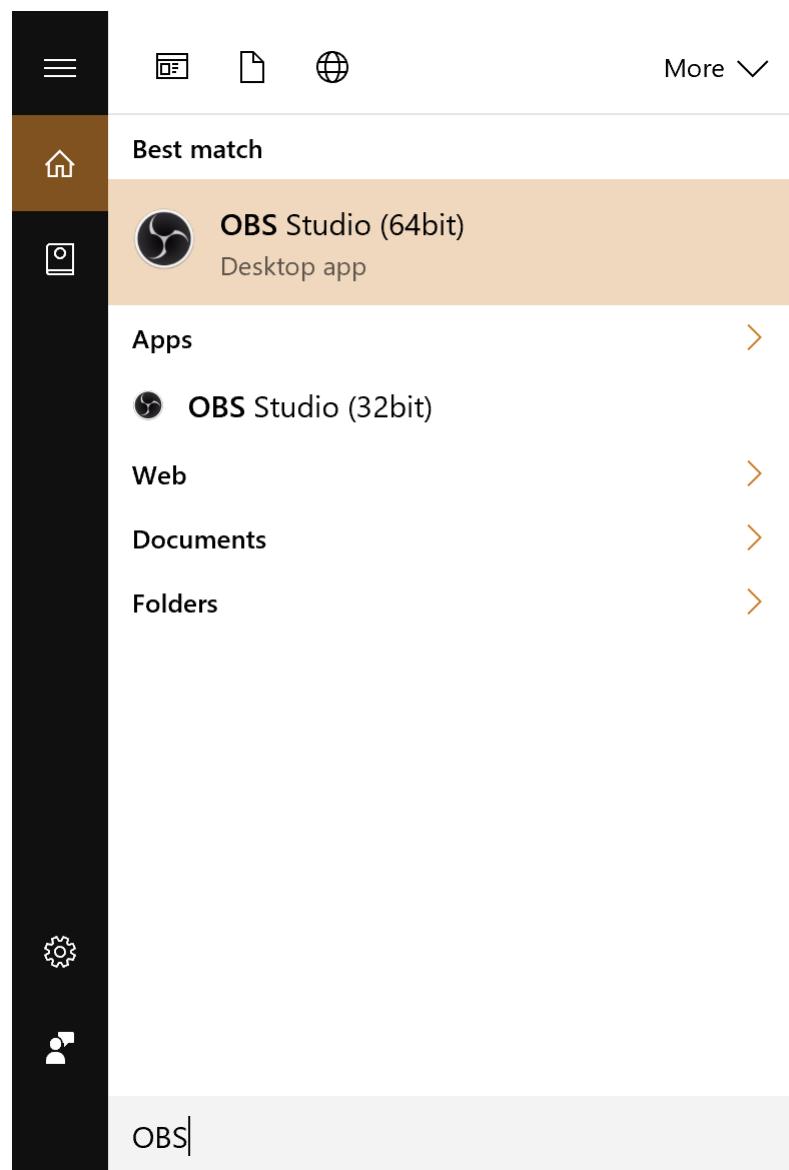
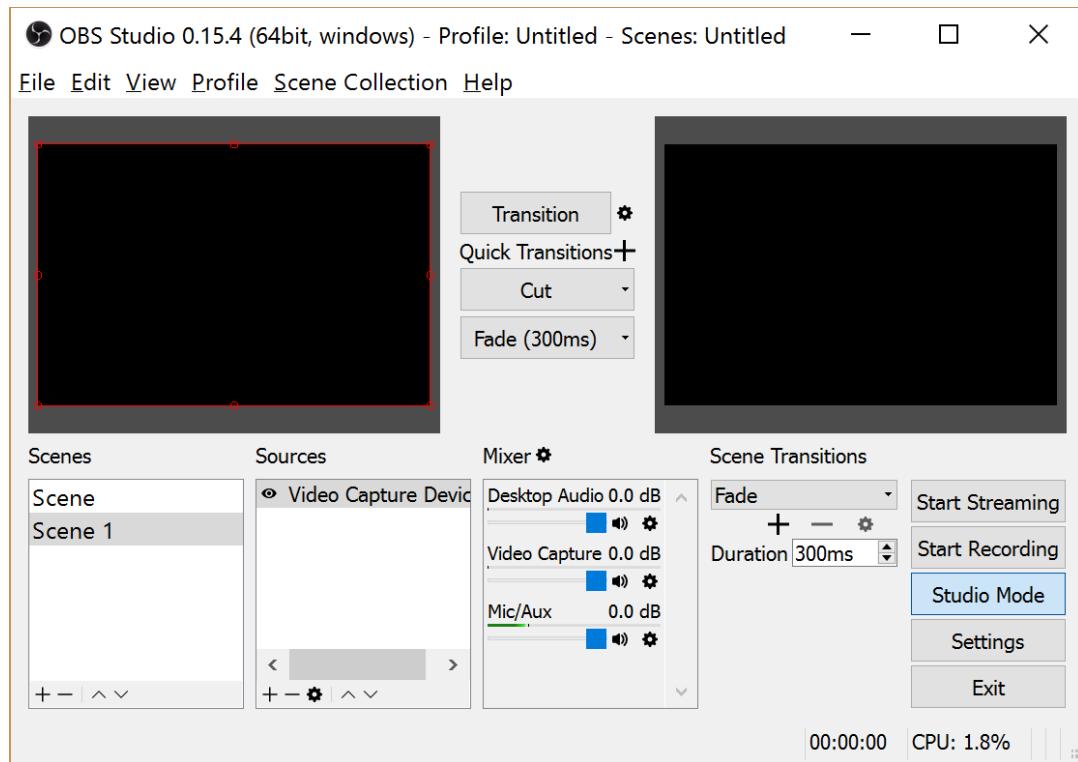
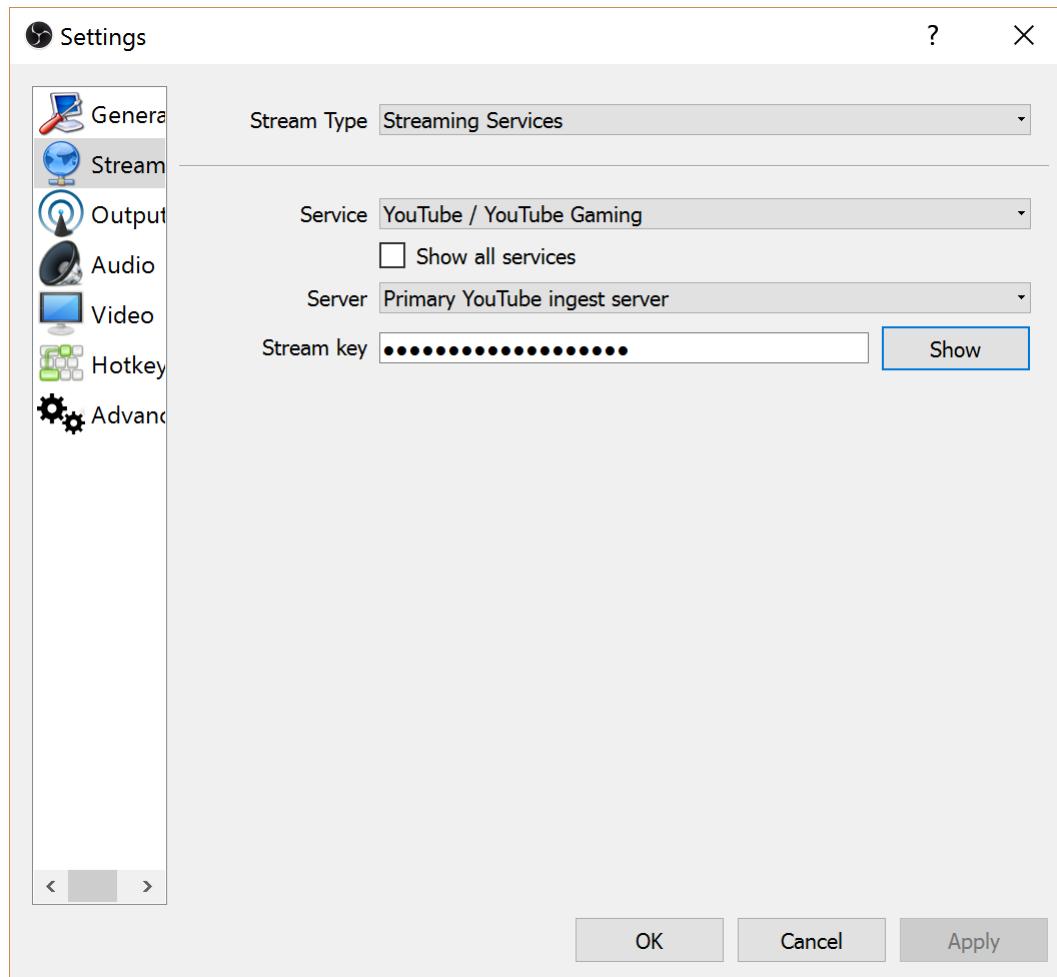


Figure 21. OBS Studio

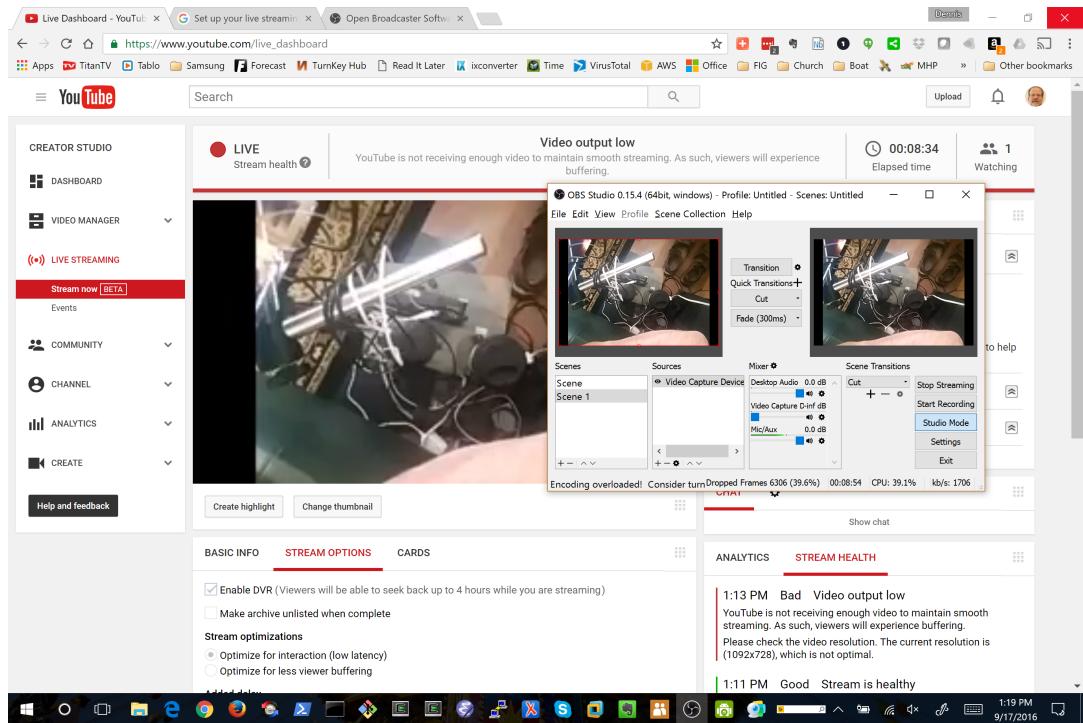
OBS Settings

There are a lot of things I have not figured out yet, but the one thing that is required, is to set the **Stream key** to the **Stream name/key** on the Live Dashboard above.

Figure 22. OBS Settings

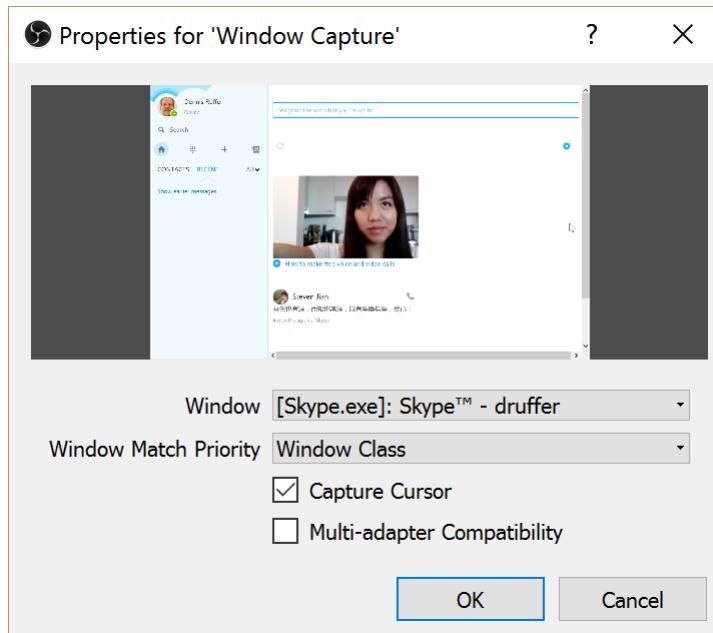
Start Streaming

When you hit the "Start Streaming" in OBS then things start happening over on the Live Dashboard. The "Stream Health" is not very good, as the message says: "YouTube is not receiving enough video to maintain smooth streaming. As such, viewers will experience buffering. Please check the video resolution. The current resolution is (1092x728), which is not optimal." The in room projector is a Panasonic PT-DW6300 with a resolution of "WXGA 1280 X 800", so they are not far off. I haven't figured out what my Samsung Galaxy S5 put out, but my Motorola Moto Z Play can output 1280 x 720 (720p), 1920 x 1080 (1080p) or 3840 x 2160 (2160p). Both are 16 MP cameras, but the Samsung seemed to look better. DroidCam under Linuz can handle 320×240, 480×360, 640×480, 960×720 or 1280×720 but not sure what Win10 does yet. The end resulting video seems to be 1280x720@30 fps. I'm also seeing a very significant delay, which is going to be another wrinkle, but again, moving on to see what's next. We can optimize later. At least I can see myself, sort of live, on the "watch page" and I can share that URL multiple ways.

Figure 23. Start Streaming

Screen Sharing

This ends up requiring another Scene in OBS with Sources set to Window Capture setup to whichever window you want. I chose the Skype window that I just opened. I can Transform it to "Fit to screen" and then click Transition. The delay means you have to just trust that this will make it out Live, but you don't get instant gratification here.

Figure 24. Window Capture

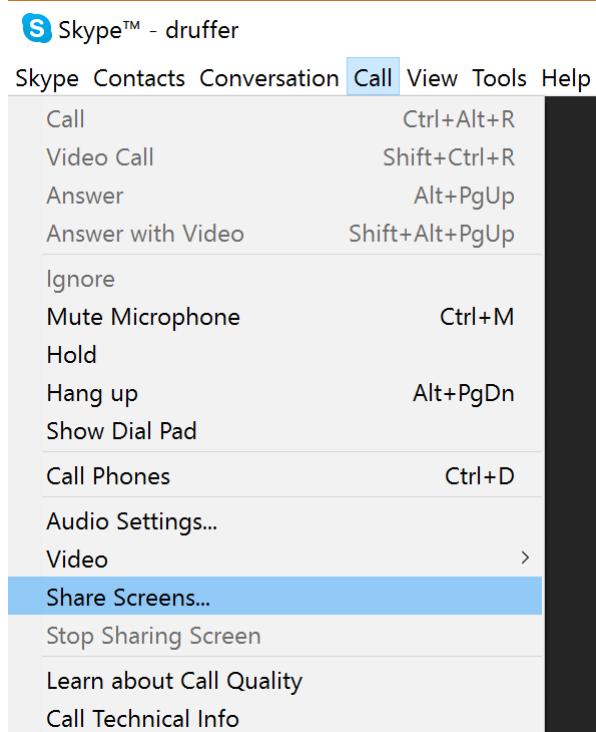
I've mostly been sharing the entire Windows Desktop, even though that requires that the computer be dedicated. Then I have experimented with multiple guest sharing options; Skype to Skype or to phone

(when bandwidth is an issue for the speaker), Google Hangouts, and <https://appear.in/>. The choices are endless and the following describes some of the alternatives.

Skype Screen Sharing

I found a website that tells how in Skype for Windows Desktop <https://support.skype.com/en/faq/FA10215/how-do-i-share-my-screen-in-skype-for-windows-desktop>, but then also found it in Skype itself here

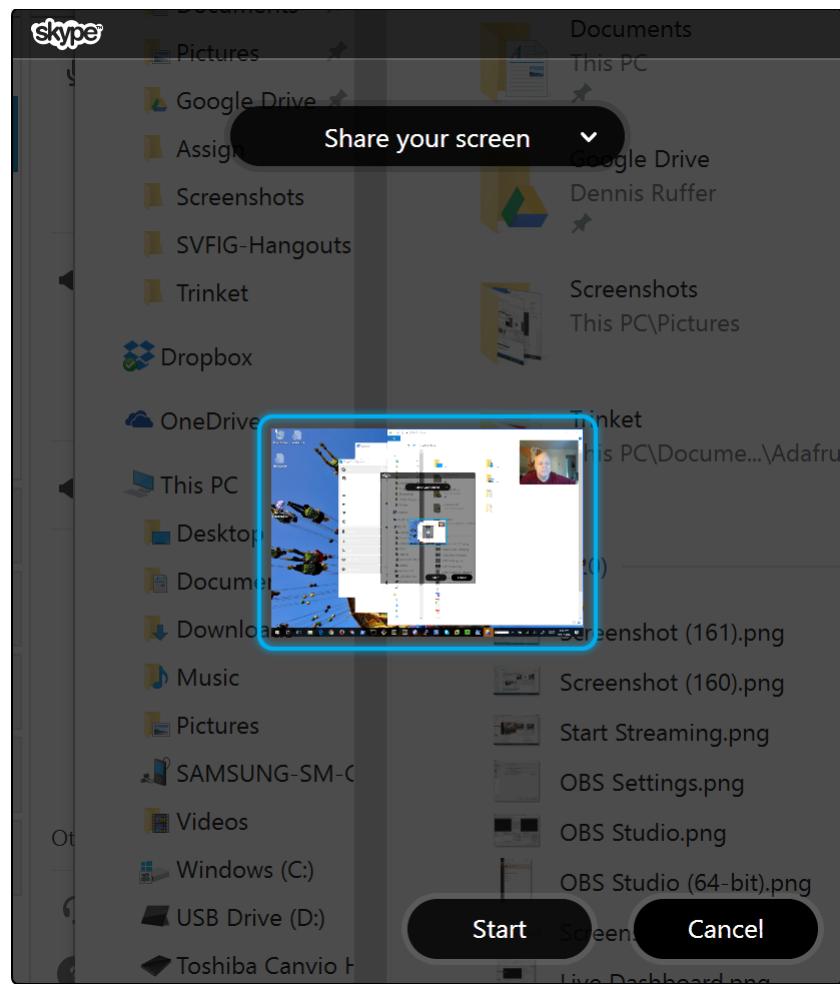
Figure 25. Skype Screen Share



Skype Share Screen

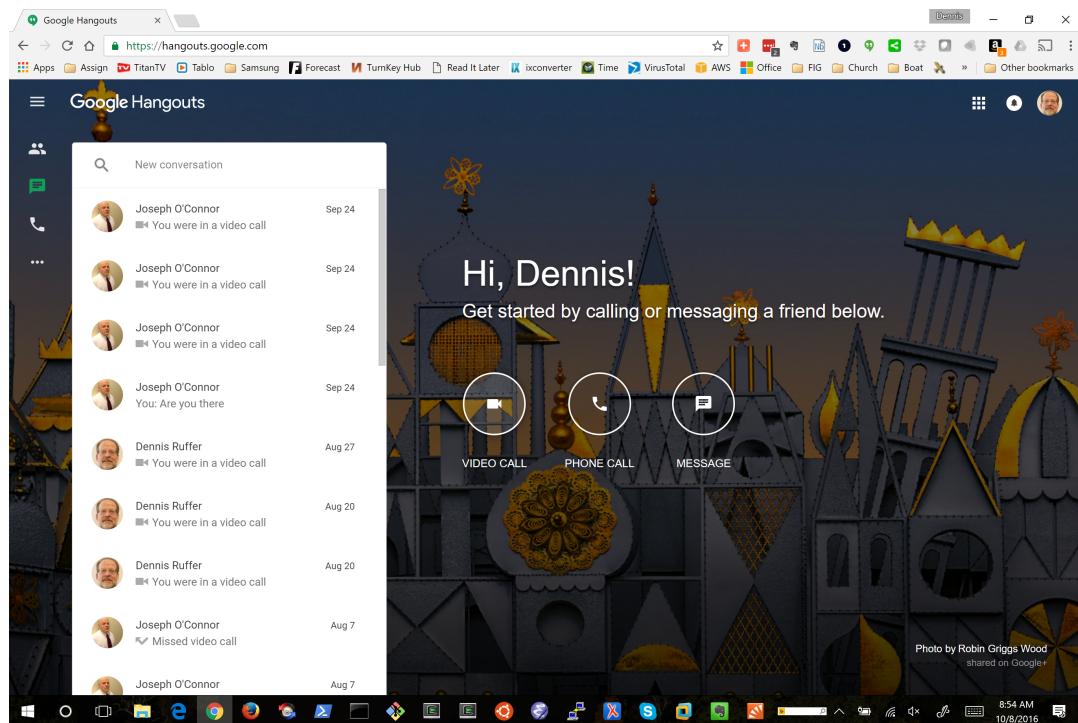
This is the window you get when that menu item is selected.

Figure 26. Skype Share Screen



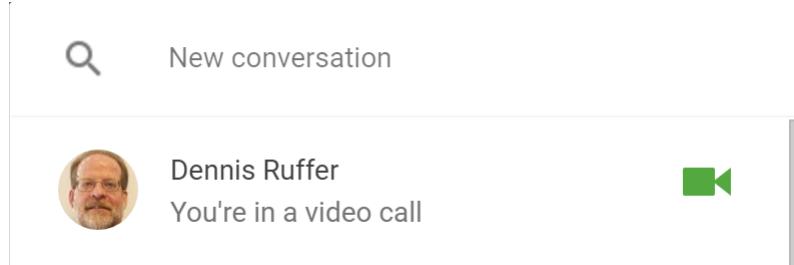
Create a Hangout

Google Hangouts did not go away, but are still available at <https://hangouts.google.com/>.

Figure 27. New Google Hangouts

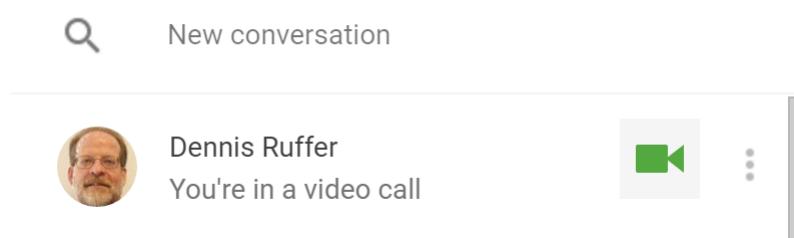
You're in a video call

This is the window you get when you are invited into a Hangout.

Figure 28. You're in a video call

Accept the call

Click the camera icon to join the video call.

Figure 29. Accept the call

Leave the Conversation

When you want to leave the conversation, you can click on the headset icon within the conversation, or hit the 3 dots in the previous image and Leave in the pull down menu. You then get this dialog.

Figure 30. Leave Conversation

Leave Conversation

You will no longer be able to read or send messages to this group.

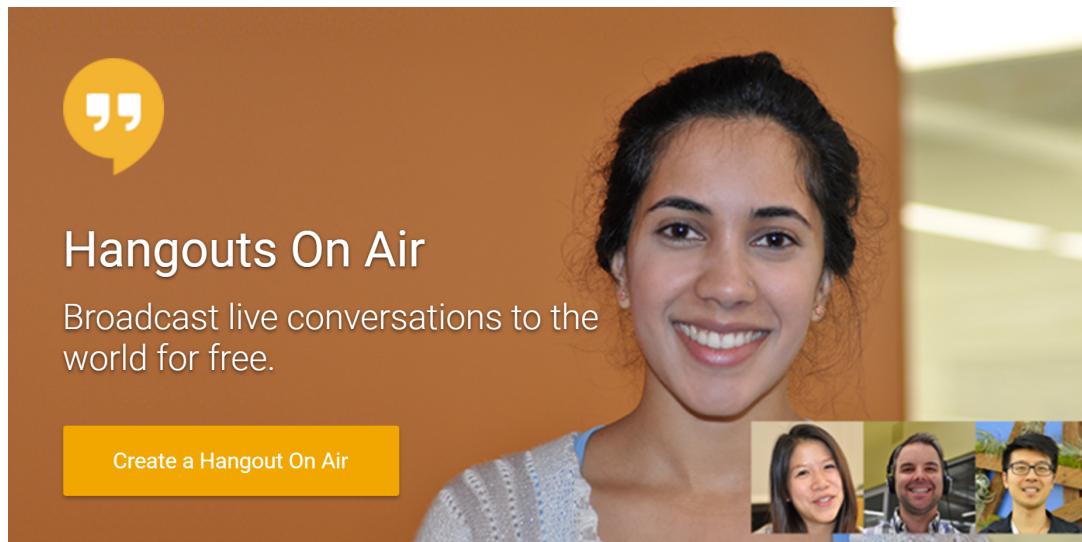
Cancel

Leave

Create a Hangout On Air (obsolete)

Hit the Create a Hangout On Air button.

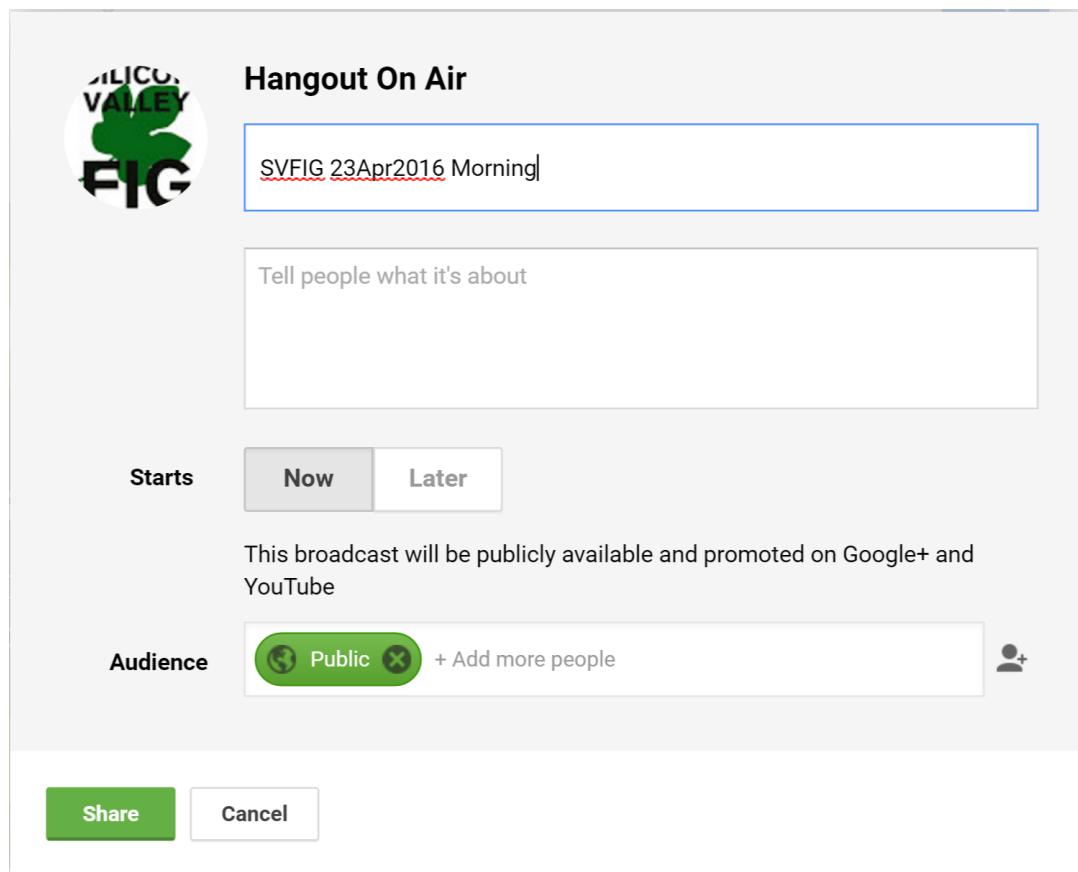
Figure 31. Create a Hangout On Air



SVFIG 23Apr2016 Morning

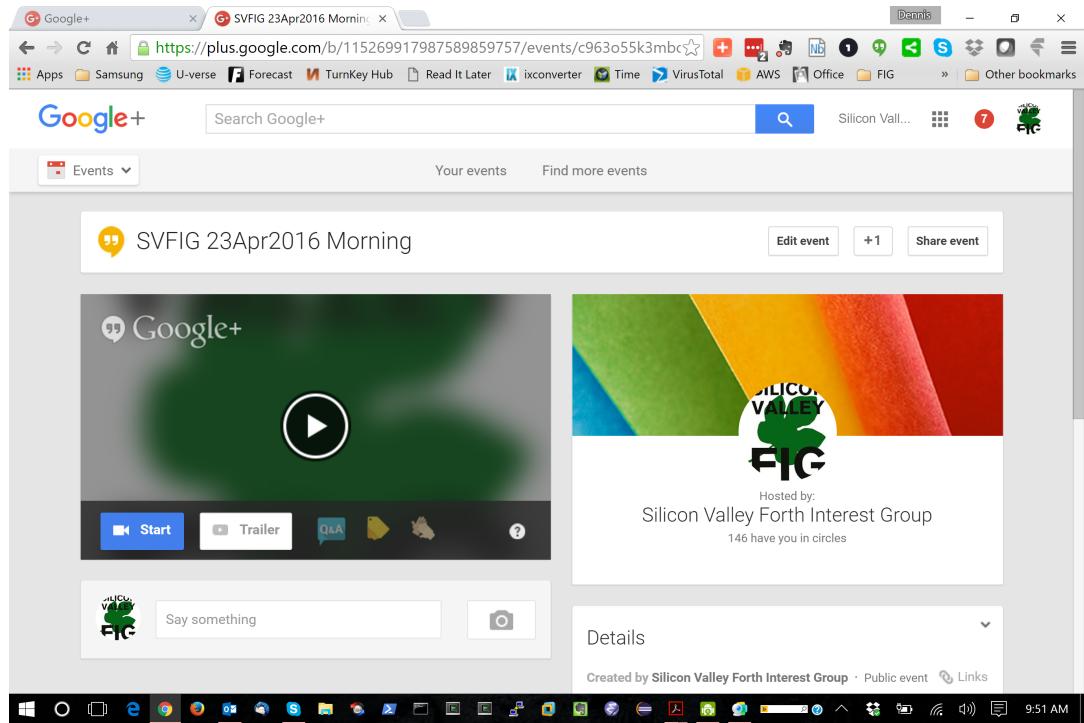
Give the hangout an appropriate name, so people can find it on YouTube.

Figure 32. SVFIG 23Apr2016 Morning



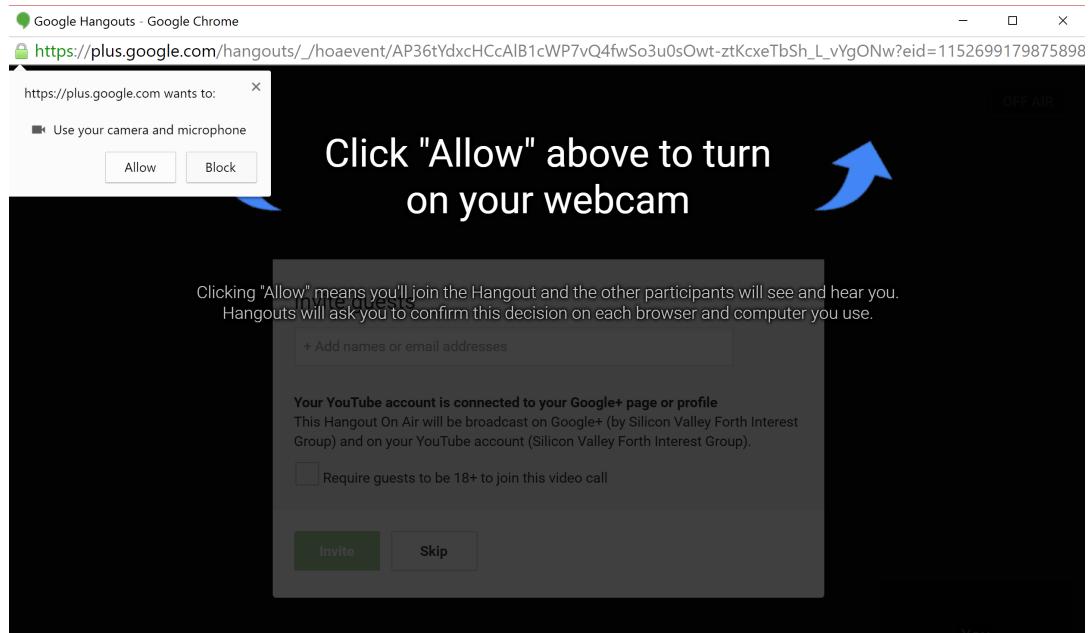
SVFIG 23Apr2016 Start

The online announcement for the event is now created. Press the Start button.

Figure 33. SVFIG 23Apr2016 Start

Allow Webcam

If this is the 1st time on this machine, Windows may ask for permission to turn on the webcam.

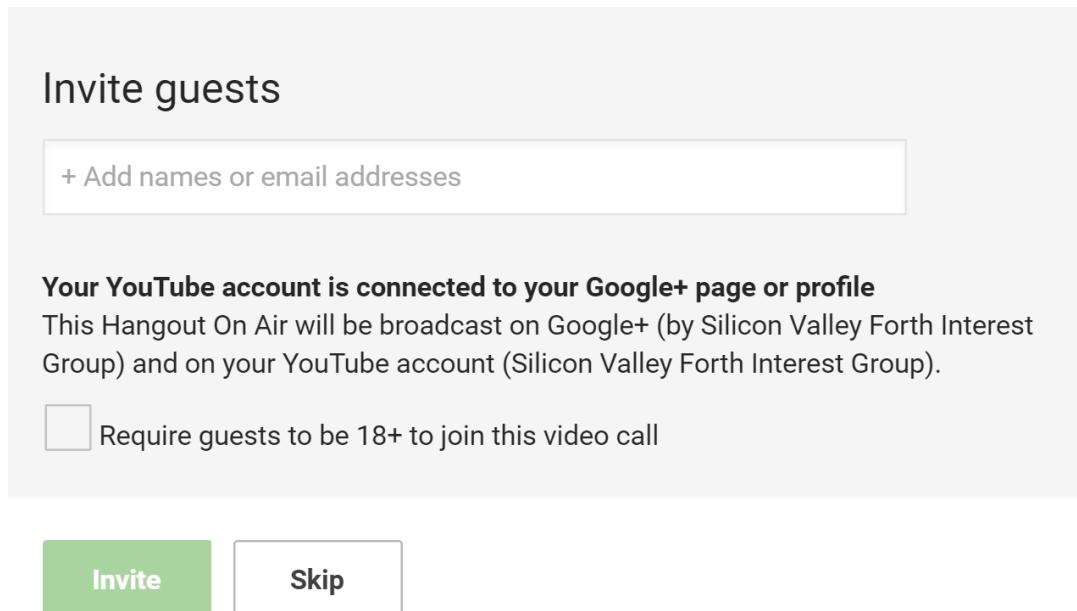
Figure 34. Allow Webcam

Invite Guests

You can invite guests now, or add them later. We typically, only do this for remote speakers. In fact, As we are discovering now, I don't recommend doing it here at all. **TODO** Add screen capture-

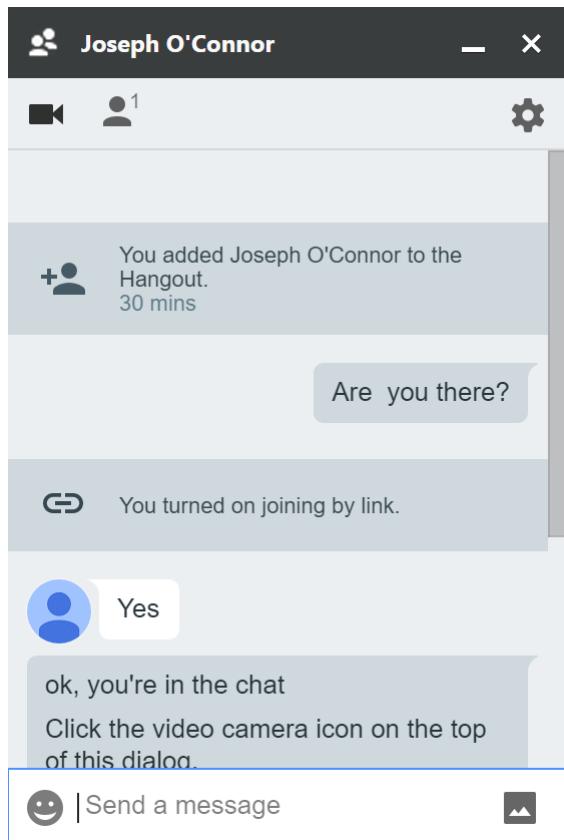
of inviting guests on the Broadcast screen, where you can grab the URL link (e.g. <https://hangouts.google.com/call/6zjotf4g45erxdxfhk6hglqwqe>) as text and email it directly to the guest.

Figure 35. Invite Guests



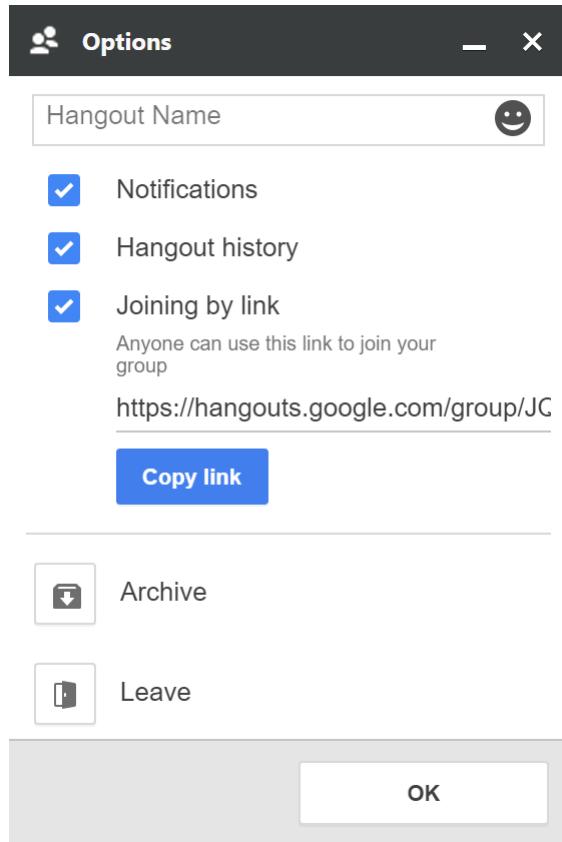
I finally managed to capture the dialog (from the Host side) where I can wait to chat with the speaker and tell them how to join.

Figure 36. Hangout Chat



From the settings icon in the upper right, I can turn on "Joining by link" and send the link by email.

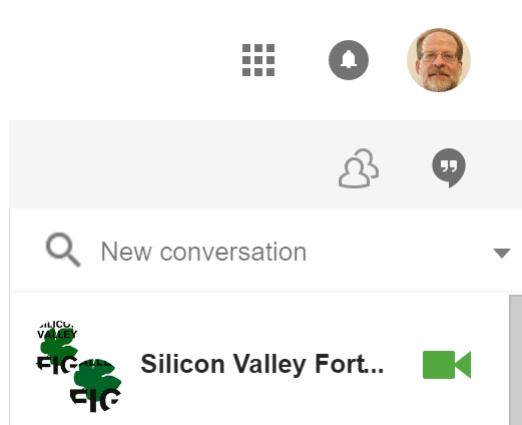
Figure 37. Hangout Settings



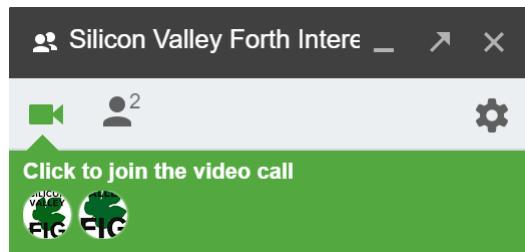
Guest Speaker side

When you are on the plus.google.com page, you will see a notice in the upper right of the page indicating that there is a new conversation. I was finally able to capture this by using a 2nd computer and inviting myself to join.

Figure 38. New conversation

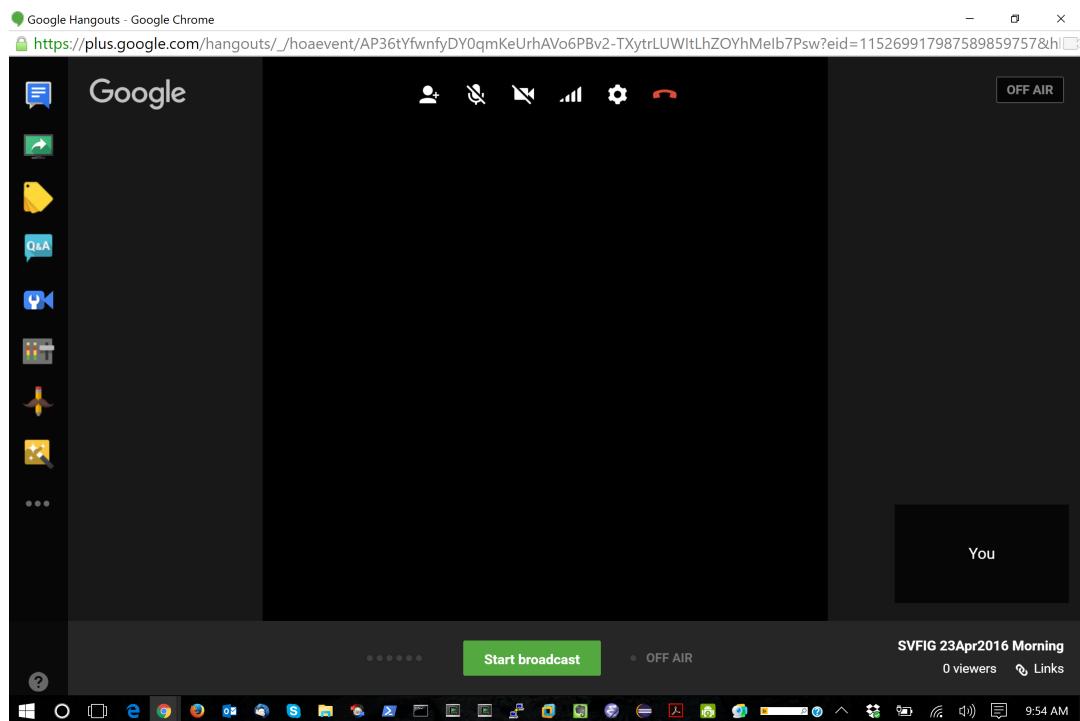


Clicking on that message will open up another dialog where to can click the video icon to join the Hangout.

Figure 39. Click to join

Start Broadcast

If you are early, you can just wait here until it gets close to the time for the hangout to start. However, be aware that it takes a little bit of time to actually get the broadcast started, so don't cut it too short.

Figure 40. Start Broadcast

YouTube Page

Down at the bottom right, select the Links button.

Figure 41. YouTube Page

Event Page	https://plus.google.com/events/ch8167574c
YouTube Page	
http://youtu.be/s9cnnPiQtn8	
Video Embed	<iframe width="420" height="315" src="http://

YouTube Page Selected

Copy the YouTube Page for the email announcement.

Figure 42. YouTube Page Selected

Event Page	https://plus.google.com/events/ch8167574c
YouTube Page	
http://youtu.be/s9cnnPiQtn8	
Video Embed	<iframe width="420" height="315" src="http://

SVFIG Email

Send email with the pertinent information to the mailing list.

Figure 43. SVFIG Email

 Send	From ▾	daruffer@gmail.com
	To...	<input type="checkbox"/> 'Silicon Valley Forth Interest Group' <svfig@zork.net>;
	Cc...	
Subject	SVFIG 23Apr2016 Morning	

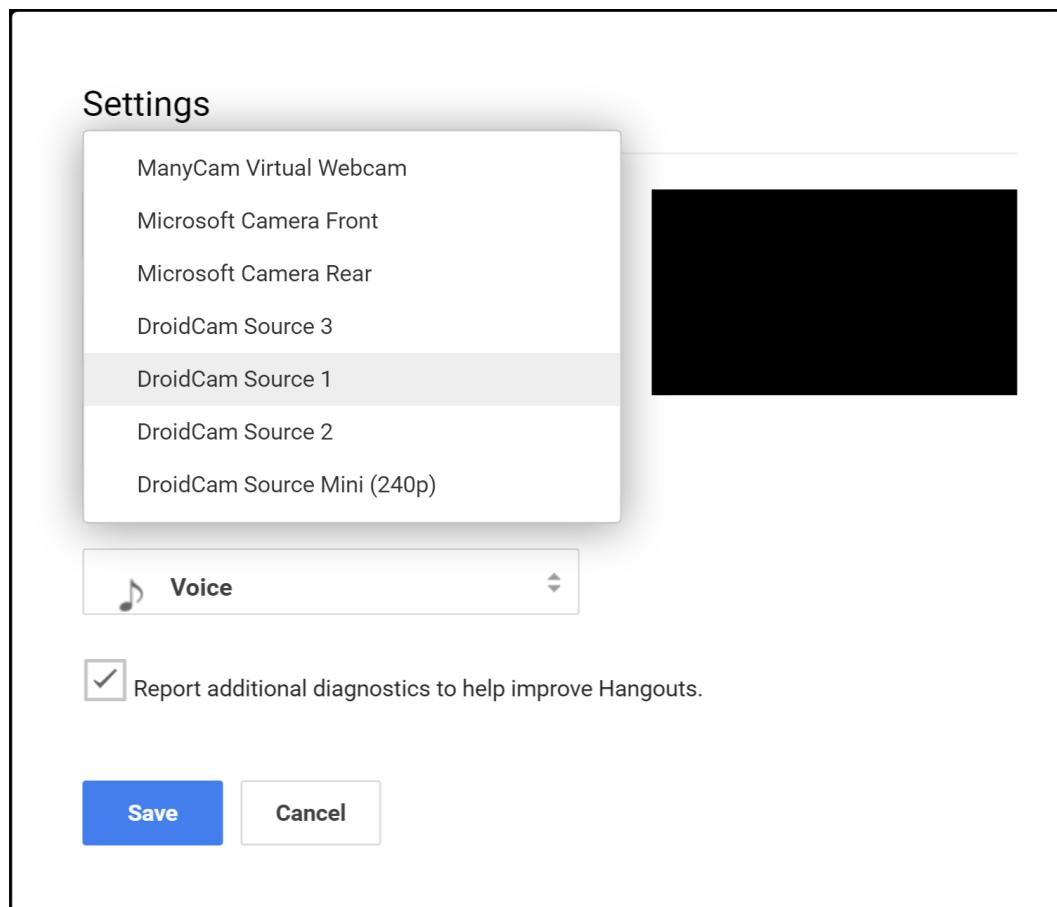
Starting soon @ <http://youtu.be/s9cnnPiQtn8>

DaR

Camera Settings

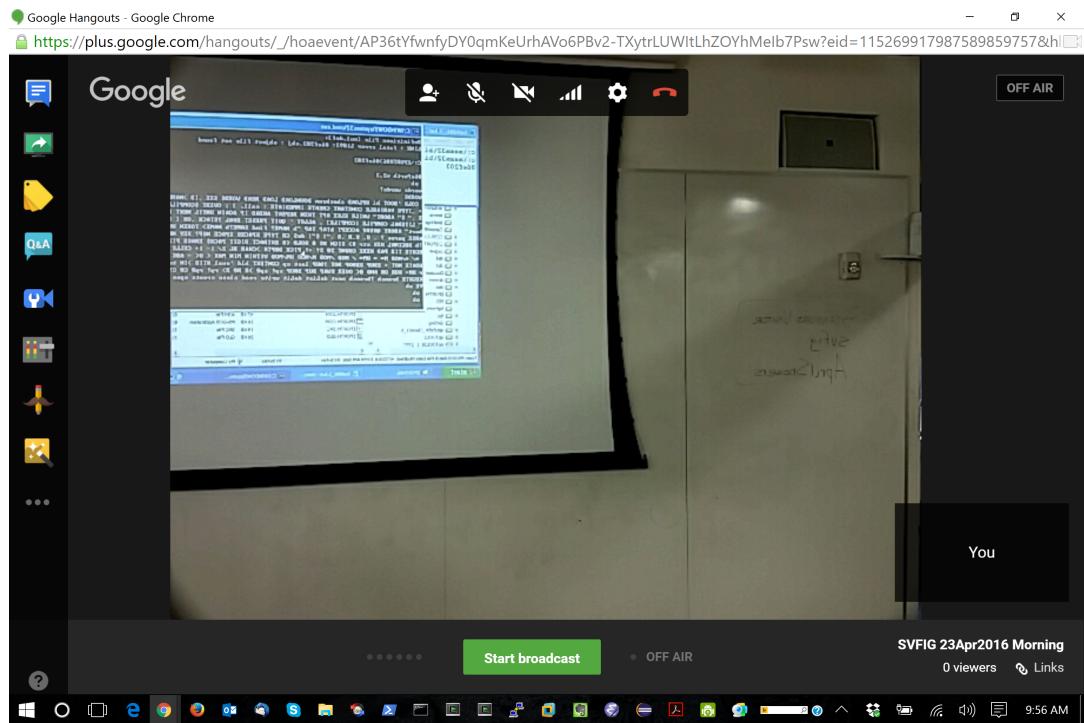
I have to admit, that I chose wrong here, but fixed it later. You should select the ManyCam Virtual Webcam, instead of the DroidCam Source 1 that is highlighted.

Figure 44. Camera Settings



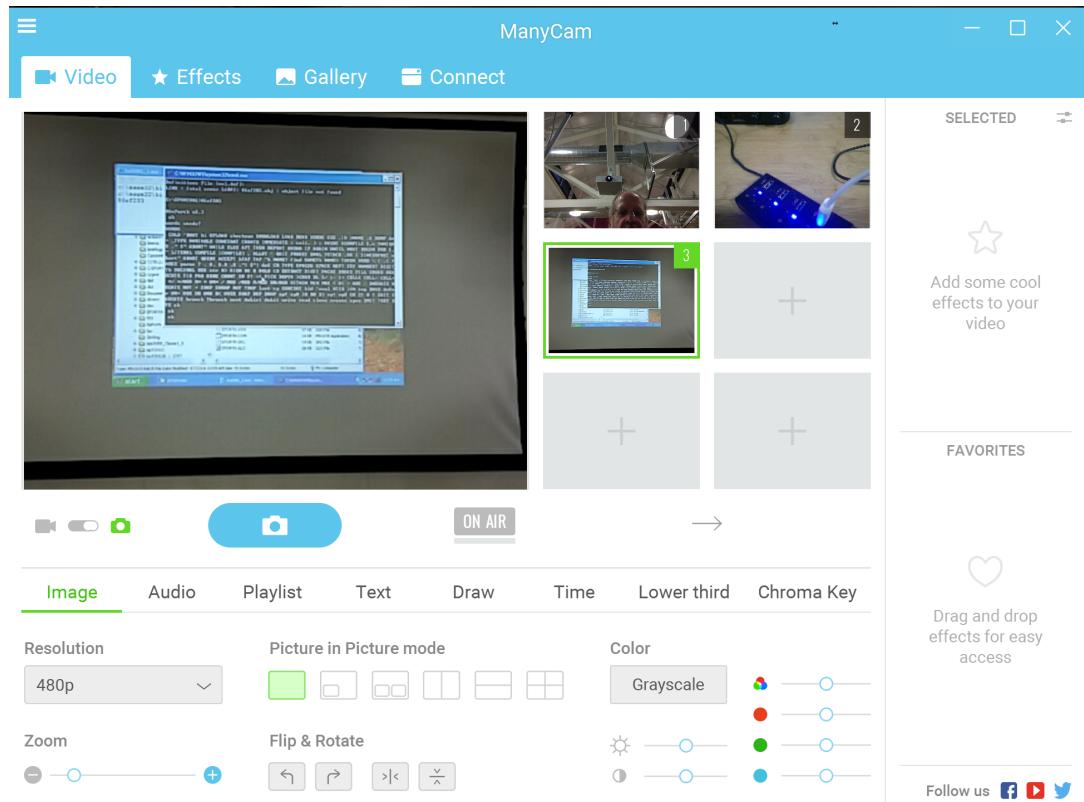
Camera Angle

Now you can adjust the camera angle. Typically, our focus is on the screen, but sometimes, we do pan around. Note that, yes, the on-screen image is reversed. However, it is correct within the YouTube feed, so don't panic.

Figure 45. Camera Angle

ManyCam Zoom

Both DroidCam and ManyCam can control zoom, but I use ManyCam for this.

Figure 46. ManyCam Zoom

ManyCam 1080p

The last setting is merely to get the broadcast up to scale.

Figure 47. ManyCam 1080p

