This tutorial will demonstrate how to make video chat with more than one people at once and how to share screen and video with group member by using Google Hangout.

**Google Talk, Google Voice, Google+ and Google Hangout**

Google has really come up with a whole line of instant messaging services and oral communication tools that are similar, but are very much different in its usages. Note that these services are free, and are accessed either through a Gmail account or Google+ account.

**Google Talk** is an instant messaging service that provides both text and voice communication functions to its users. Users use Google Talk to message or talk to another people who are also online and signed in Google Talk. So it happened only between two computers and not between a computer and a phone. Anyone with a computer and an Internet connection is able to use Google Talk.

**Google Voice** is a telecommunications service that allows the user to make phone calls to ordinary telephones. In return, the user can use any phone to dial into Google Voice. You can then listen to your voice mail or make phone calls to just about anyone. Calls within the US are free and international calls are charged a significantly minimal amount. Google Voice can work with multiple phones. All listed phone numbers would ring once the Google Voice number is dialed so you have the freedom on where you want to answer the call. It is even possible to transfer the call from one phone to another by issuing a command to ring all phones again so you can pick-up on another line. However, Google Voice is only available within North America. Users must have a local phone number within the US.

**Google+** is a social networking platform. It makes every existing Google product socially compatible. All of products, including Picasa, Gmail and Google Maps can be integrated into the Google+ experience so that you don’t have to sign into different services to share your photos and let your mates know what you’re up to. Each Google+ profile will centre around the Stream, which is essentially the same thing as Facebook's news feed - where all of your info and updates from your chums are rounded up and constantly updated. The Stream will be joined by four core elements - Circles, Hangouts, Huddle and Sparks - with Google hinting that these are the starting block for future developments.

**Google Hangout** is a part of the Google+ apps. It is a free video chat service from Google that enables both one-to-one chats and group chats with up to 10 people at a time. While somewhat similar to Skype, FaceTime and Facebook Video Chat, Google Hangouts focuses more on “face-to-face-to-face” group interaction as opposed to one-to-one video chats, and utilizes sophisticated technology to seamlessly switch the focus to the person currently chatting. Google Hangout can be accessed via laptop and desktop computers as well as with Android mobile devices. In addition to video chatting, Google Hangout users can share documents, scratchpads, images and YouTube videos with other users. Google+ Hangouts also offers a "Hangouts on Air" feature for broadcasting live video conversations that are accessible to anyone with a web browser.
Summary:
1. Google Talk is an instant messaging client similar to Skype while Google Voice is a telecommunications service
2. Google Voice can interface with ordinary telephones while Google Talk cannot
3. Google Voice works with multiple units while Google Talk can only work with one
4. Google Voice is only available in North America while Google Talk is available worldwide
5. Google Voice requires that you have a local telephone number while Google Talk does not
6. Google+ Hangouts is an in-browser application offering various interactions beyond mere video chatting.
7. Google+ Hangouts can be used inside your Google+ profile.
8. Google+ Hangouts offer a variety of services ranging from video conferences, to live collaborations and live broadcasts.

This tutorial will demonstrate how to use Google Hangout

Access Gmail Account
• To begin using Google Hangout, go to http://accounts.google.com/, enter your Gmail information and password, and then click on Sign in.

If you did not have Gmail account, click on “create an account for free”, and then you will be taken to the following screen where you will fill in the required fields.
Google Hangout

Once your account is created, click on Gmail to enter your email account to add people into your contact list as shown in the image below. If “Gmail” is not on the list, look towards the right side of the bar and find “More” and click on the arrow to the right of it. Move the cursor down the “Even more” and click on it. You will find Gmail in Home & Office section. You will be taken to a screen that looks like this:

• Get Ready – Type your friend’s email address in the input box and choose “invite to chat” in the box appearing bellow input box. If your friend is online, he/she will receive a notice. He/she clicks yes and then he/she will be in your contact list. You can start hangout now!

• Start – Click “Start Hangout” button and you will be taken a screen that looks like bellow. Type your friends’ names, or email address in the first box. You can also name this hangout. By doing this can help you restart this hangout again. Click “Hang Out” button bellow and your friends or students will receive a notice and click “join hangout”. Now, your hangout is starting. If you and your friends have cameras and microphones, your video will appear at the bottom of this window and you can see and talk with each other. Of course, you can turn video and voice off by clicking microphone and video buttons at the upper right of the window if you don’t want other people to see you.

• If your friends or students can’t use Google Hangout, you can add a telephone participant by clicking “+telephone” button bellow the first input box. It is free for US and Canadian phone numbers. For other counties, you will be charged for each caller who joins. International rates may vary.
Chat – Not only can you talk and see your friends or students in Google Hangout, you can also send text messages to your friends by clicking “Chat” button at the upper left of the window. Everyone can send test massages in the dialogue box. Time and senders’ names are shown in chat window. Images are shown bellow.

Invite – Click “Invite” button next to “Chat” button and you will be taken back to the first site of Google Hangout. By typing other names, or email addresses in input box, you can invite more (up to 9 people) friends or students to join this hangout.

Screen Share – Click “Screenshare” button next to “Invite” button. A dialogue window will be shown in screen. All of windows in your desktop will be shown in this dialogue window. Choose the window you want to share and click “Share selected window” button below. Other people in this hangout will see this window and all of your operation in this window.

YouTube – Share video on YouTube with your students by clicking “YouTube” button next to “Screenshare” button. Click “Add videos to playlist” button and type your keywords to search videos in YouTube. You will see there is a green plus button next to title of video. Click the green button and the video will play. All people in this hangout will see the video you chosen and anyone can pause and play this video.
addition, group members can talk with each other by clicking green “Push to talk” button below video. Video will continue playing without high voice so that you can hear each other clearly.

- Google Docs – Click “Google Docs” button next to “YouTube” button and you can share documents in your Google docs account with your students. Open folders in Google docs and then select documents you want to share. Click “select” button and all people in this hangout can see your message: “Bessie has added 3 documents Use app.” If they click “Use app”, they can access Google docs. You should click “Give Access” button to give other people authority to access those documents.
You can also change the settings by clicking the right button. They are allowed to edit or only read those documents. You will see your documents icon at left bar. Click the left arrow and expand menu. You will see the menu as shown in the right image. Put your mouse on documents. There is a little cross icon at right. Click it and you can delete this document. Click the red “ADD” button and go back to your Google Docs account.

You can choose other documents to share with your students. Everyone can edit documents and everyone can see who is editing document now if they have authority.

Change the sharing settings.
You can also share those documents on Facebook and twitter if you change the sharing settings. Click “File→Share…” to open settings dialogue box. Click change… and change visibility options from private to public on the web. Click “save” and click Facebook icon bellow the link or other social communication tools.

- **Google Effects** - You can have fun if you add some effects in your hangout by clicking “Google Effects” button. There are a lot of
Default effects, including sound, headwear, eyewear, facial hair and props.

- **Add app** – You can add other apps which you want in your hangout by clicking “+Add app” button. If you want to exit an app, just click the button again and you can go back to your video chat window.