



Video and Deaf+Hearing Community

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Welcome!

- Who we are
- Why communication accessibility?
- Google+
- Hangouts
- Video and Community (with RIT/NTID)
 - DHHVAC project
 - Springboard project
- Building on the Hangouts API
- Using Google Services to Communicate
 - Google+ Pages
 - Hangouts and Live Hangouts
 - Google Apps Video

Who we are

Naomi leads a team of engineers at Google. She works on improving the accessibility of Google products and services.

Nathan works as a webmaster at Google, responsible for many pages on google.com and google.org. He works primarily with Google AdWords and Google Apps.

- www.google.com/doodles
- www.google.com/ads
- www.google.com/a
- www.google.org, <http://www.google.com/accessibility/>

Why communication accessibility?

"To organize the world's information and make it universally accessible and useful."

- Most of the world's population does not speak my language.
- Hearing people and Deaf want to communicate
- Diversity at work leads to better ideas
- Hearing people can learn from deaf people about video communication

Google Insights

- Google is busy trying to integrate services together better
- If you upload video clips to YouTube, it is instantly viewable to millions of users around the world.
- Moore's law: as technology advances exponentially, we are becoming more connected too.
- Your mobile phone is your compass, your communicator in the world.

Take Google with you

The Google products you know and love, designed to work best on Android phones and tablets.

Start Now



Search the Web



Navigate your World



Connect & Share



Be Entertained



Create & Collaborate



Shop & Buy

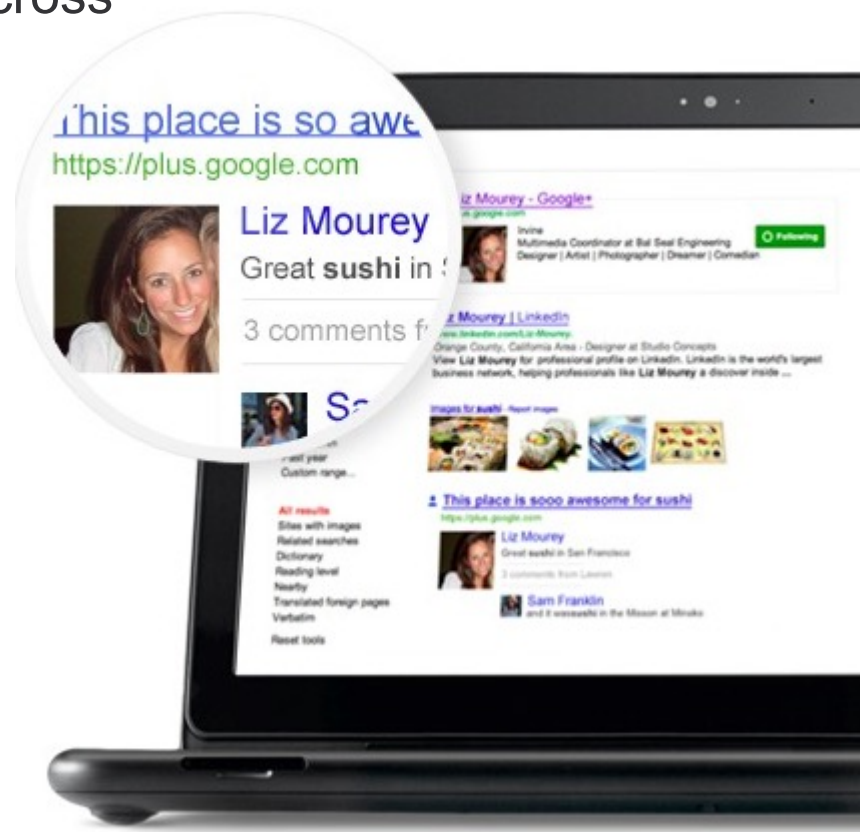
Google+

It's an upgrade to Google --

- One seamless social experience across all of our products

It's a social destination --

- A place to share and build community



Google+ Hangouts: Video Communication

Sign Language Hangouts:

- Shift+S
- Pinning a view
- The "brady bunch" view

Deaf-and-Hearing Communication

- Adding a phone call to a Hangout
- CART (Hangout Captions)
- VRI (early demo)



Demo: Hangout with Ben

Demo: Adding CART to a Hangout



Launch Hangout Captions

Home

Docs

Support Forum

Hangout

What is Hangout Captions?

Hangout Captions is an app that connects live transcription services directly into a Google+ Hangout, improving accessibility for participants who are deaf or hard of hearing.

Real-time communication

Easy to read

Deaf STEM Community Alliance Project at RIT/NTID

- The project is supported by the National Science Foundation (Award HRD #1127955)
- The Deaf STEM Community Alliance brings together students, faculty and staff from:
 - Rochester Institute of Technology/National Technical Institute for the Deaf (RIT/NTID) in Rochester NY
 - Camden County College in Blackwood NJ
 - Cornell University in Ithaca NY
- <http://www.dhhvac.org>

Deaf STEM Community Alliance Project at RIT/NTID

- Goals:
 - Increase GPAs and retention rates of D/HH students in STEM majors.
 - Create a scalable online model that other schools can use.

Virtual Academic Community (VAC) prototype for D/HH students to succeed in STEM fields of study through a web-based cyberinfrastructure

- Web-conferencing tools provide students with remote support services (tutoring and mentoring) and remote access services (interpreting and captioning)
- Began using Google+ Hangouts in early trials

Deaf STEM Community Alliance Project at RIT/NTID

- Why RIT/NTID Chose Google+ and Hangouts?
 - All RIT students already were using and familiar with the University Gmail system. Easy to learn.
 - Google+ available both outside of class and after students graduate.
 - Online materials and tutorials from Google have captions
 - Custom support options for the deaf community (shift+S)
 - Students are often online on their own time, which makes Google+ an easy way for the virtual academic community manager to get ahold of or update many of the students.

Remote Tutoring with the VAC



Deaf STEM Community Alliance Project at RIT/NTID

For most of the students and almost all of the tutors, this was the first time they used Google Applications together in a unified way.

- Virtual Academic Community Manager created 1-2 hour orientation sessions for tutor-student teams in the beginning where they met in person.
- Helped students become familiar with Gmail, Google+, Hangouts, Google Docs, and Google Calendar.
- While tutors were working with students on their coursework, Many students, as digital natives, helped tutors become fully acclimated to Google Applications.

Deaf STEM Community Alliance Project at RIT/NTID

Some of the students began using Google Apps with peers to support each other academically as well as personally.

What began as a biweekly conversation about school projects and interests expanded over the summer.

Springboard Hangouts

- 4 students in very different parts of the country
- connecting online
- sharing their work experiences

Springboard Hangouts



Live Demos...

Demo: Adding a Voice Call to a Hangout

The screenshot shows the Google Hangouts interface. At the top left is the Google+ Hangouts logo. On the right, there are controls for microphone (On), video (On), settings, and an Exit button. Below the header is a toolbar with buttons for Chat, Invite, Screenshare, Hangout Capti..., Google Docs, Google Effects, YouTube, and + Add app. The main content area is dark grey and split into two panels. The left panel is titled 'Invite others to this hangout' and contains instructions: 'Hanging out is fun with friends. Start typing below or click a friend to invite them.' Below this is a text input field with the placeholder '+ Add names, circles, or email addresses' and a '+telephone' link. At the bottom of this panel are 'Hang out' and 'Close' buttons. The right panel has tabs for 'Online' and 'Telephone', with 'Telephone' selected. It is titled 'Add a telephone participant' and shows a 'Credit: \$0.00 [Add funds](#)' status. Below the title is a form with a country dropdown (US), a text input 'Enter a phone number', and an 'Add' button. Below the form, it states: 'You can place one telephone call at a time. Free calls for US and Canadian phone numbers. For other countries, you will be charged for each caller who joins. International rates may vary. [View rates](#) No Emergency Calls. Calls to emergency services are not supported.'

Building on the Hangouts API (Guest Demo!)

Q&A

How to find us:

- <http://gplus.to/naomib>
- Or email naomib@google.com (captioning@google.com)

Projects mentioned here:

- Hangout Captions
- Deaf STEM Community Alliance (<http://www.dhhvac.org>)
- <http://www.youtube.com/nonprofits>

And <http://www.google.com/accessibility>