Creating maps with rich content about your indigenous community

Trainer: Karin Tuxen-Bettman
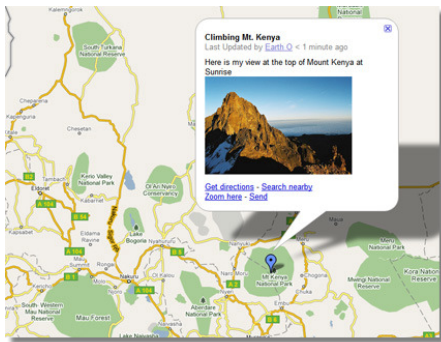
Indigenous Mapping Network – Google
Tribal Geo Tech Workshop
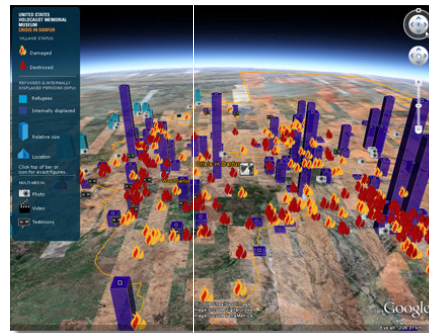
February 25-26, 2010
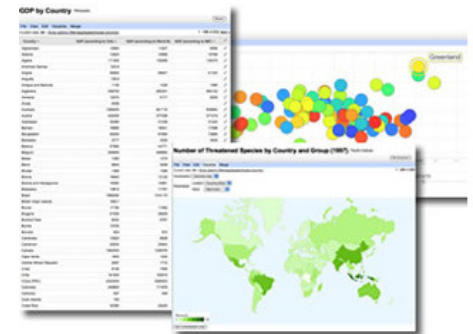
Google

Session Agenda

- Creating a simple easy map with Google Maps
- Creating an immersive 3D map with Google Earth
- Converting between GIS and KML
- Creating maps with large datasets

Google Maps

Google Earth

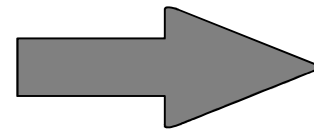**Google Fusion Tables**

Focus on Google Maps

- Hands-on Exercises:
  - Creating points, lines, & polygons
  - Adding photos & videos to balloons
  - Collaborating on your map
  - Importing KML to your map
  - Embedding your Google Map on your website
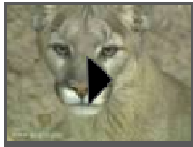 - Viewing your My Map in Google Earth
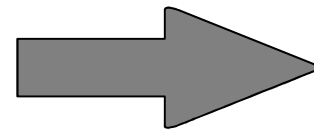
Google

Step 1. Assemble your data
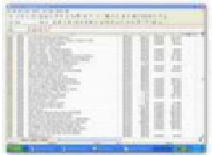
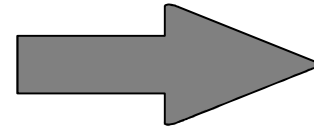Photos, images, & scanned maps → Upload to PicasaWeb or Flickr
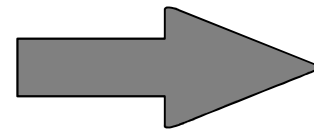
Videos → Upload to YouTube

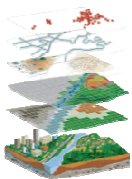Spreadsheets & databases with spatial coordinates → Import to Google Earth or use Fusion Tables

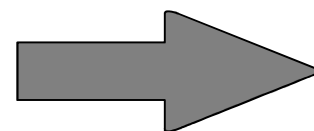Personal stories & blog posts → Import into Blogger

GIS & GPS data → Convert to KML

Google

Step 2. Decide on the right tool

Google My Maps: online mapping tool which allows you to create, collaborate on, and share a custom map.

Google Earth: free software which allows you to explore rich content in 3D and create an immersive narrated tour.

Google

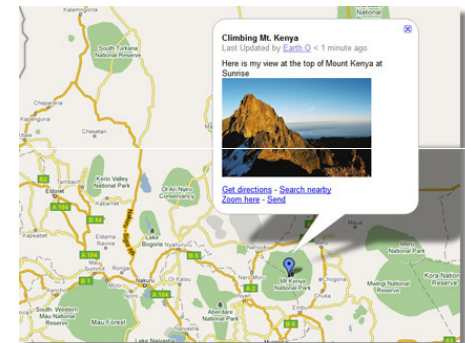# Step 2. Decide on the right tool
Google Maps

Google Maps

- Search for places all over the world.
- Begin searching at **maps.google.com**.
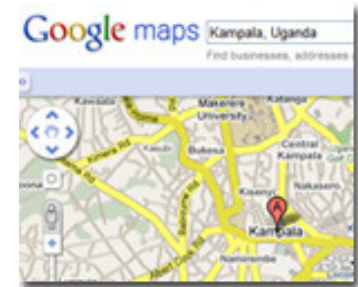
Google My Maps

- Create personalized, customized maps.
- Create a map at **maps.google.com**, then click on "**My Maps**."

Google Map Maker

- Map a neighborhood, a city or an entire country.
- Draw roads and landmarks.
- Add local businesses.
- Edit locations added by other map makers.
- Get started at **mapmaker.google.com**.
- Download data at **mapmaker.google.com/datadownload**.
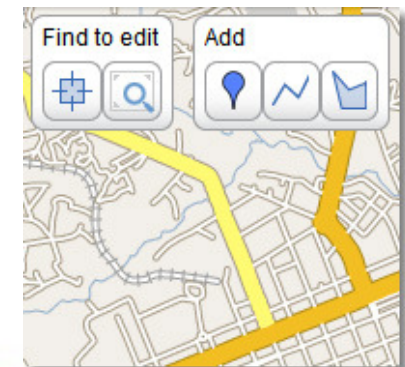
Step 3. Get your data into Earth & Maps

1. Add data directly to Google Earth or Maps (as points, lines, and polygons)

2. Add content to pop-up balloons, including text, photos, and YouTube videos.
    -- Tutorials at http://earth.google.com/outreach

3. Add images and models to the map (including image overlays, photo overlays, and models)
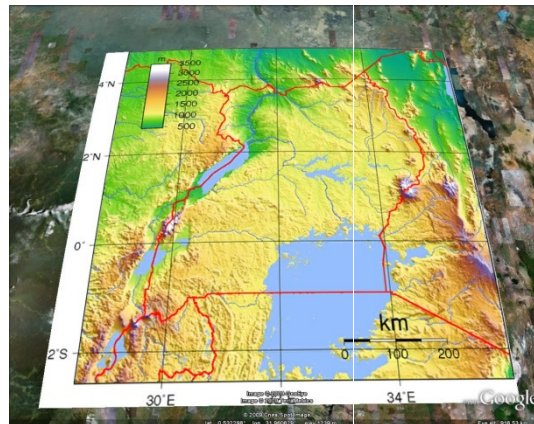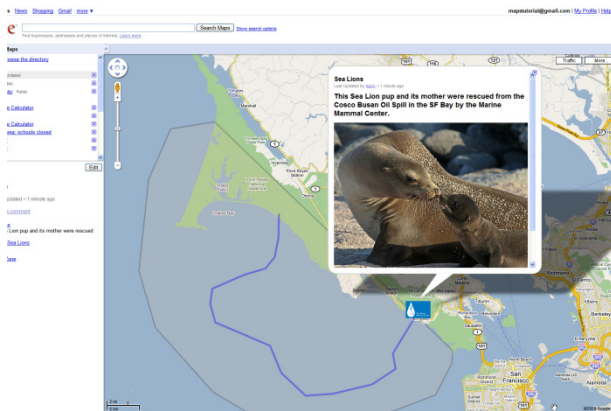
Step 3. Get your data into Earth & Maps

4. Import GIS data
   -- Tutorial at http://earth.google.com/outreach

5. Create a map from a table
   -- Fusion Tables Mapper: http://tables.googlelabs.com

6. Create narrated tours in Google Earth 5.0 or above.
   -- Go to http://earth.google.com/outreach for tutorial.

7. Embed Earth & Maps on your website!
   -- Go to http://earth.google.com/outreach for tutorial.

Google

Step 4. Promote your project!

Submit to Google Earth Outreach **Showcase**
- http://earth.google.com/outreach/showcase.html

Submit to Google Earth **Community**
- http://bbs.keyhole.com/

Embed your map in a website, such as Blogger
- Embed MyMaps map or Google Earth file
- Use Maps & Earth Application Programming Interface (API)
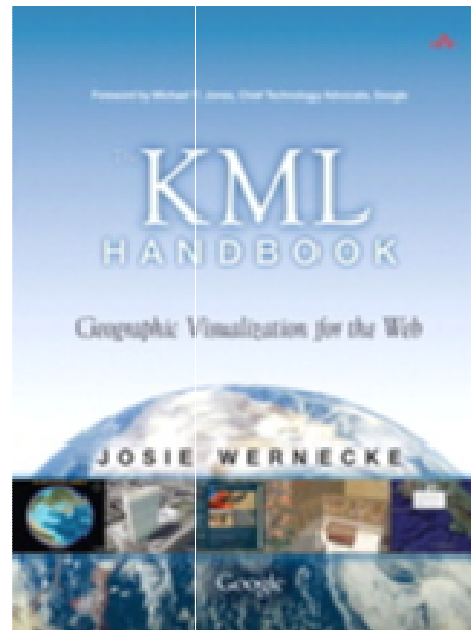
Google

How do you get started?

See what others have created:
- http://earth.google.com/gallery
- http://earth.google.com/outreach/showcase.html

Work through tutorials:
- http://earth.google.com/outreach/tutorials.html

**Practice!
Practice!
Practice!**

Google

More tutorials at our website
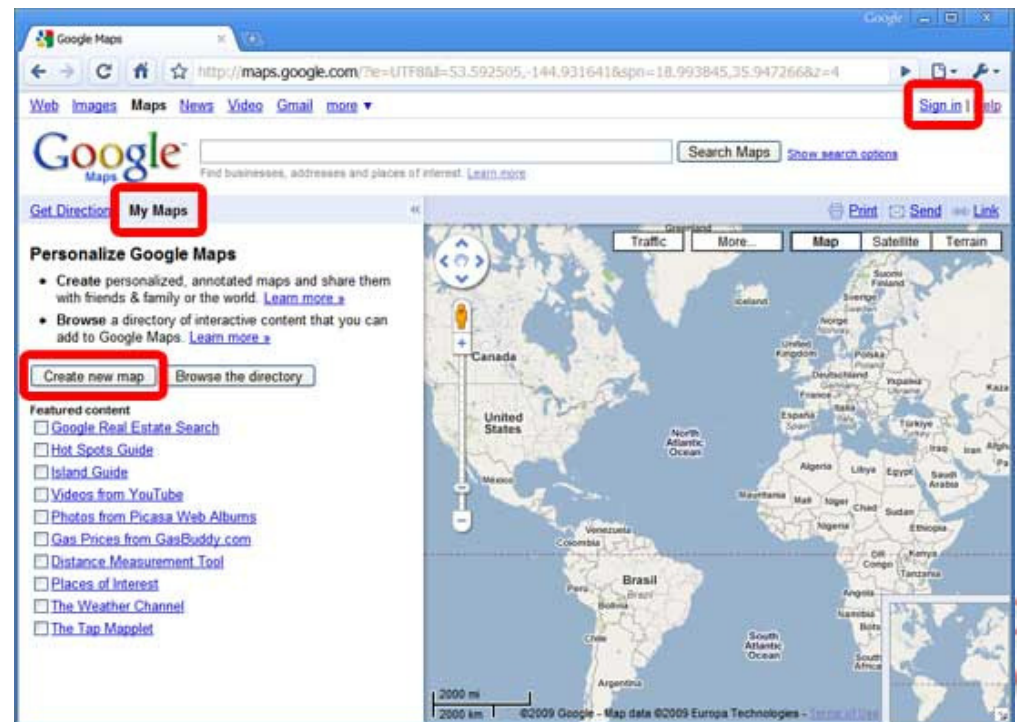
http://earth.google.com/outreach

Demo: Create maps using the My Maps tab
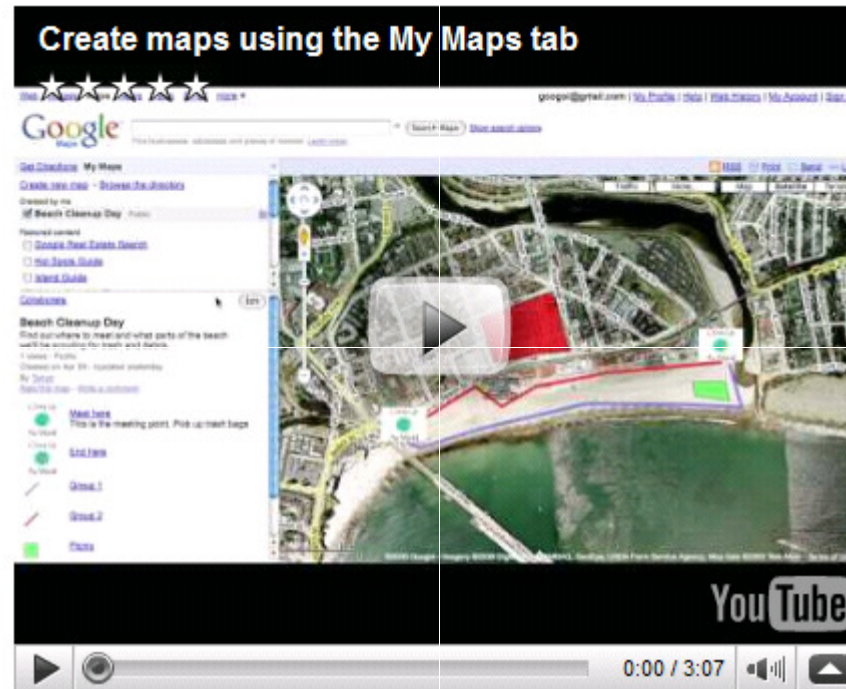
Create a New My Map

1. Go to maps.google.com

2. Click the "My Maps" link.

3. Click the "Get Started" button or "Create New Map."

4. Give your new map a title and description.
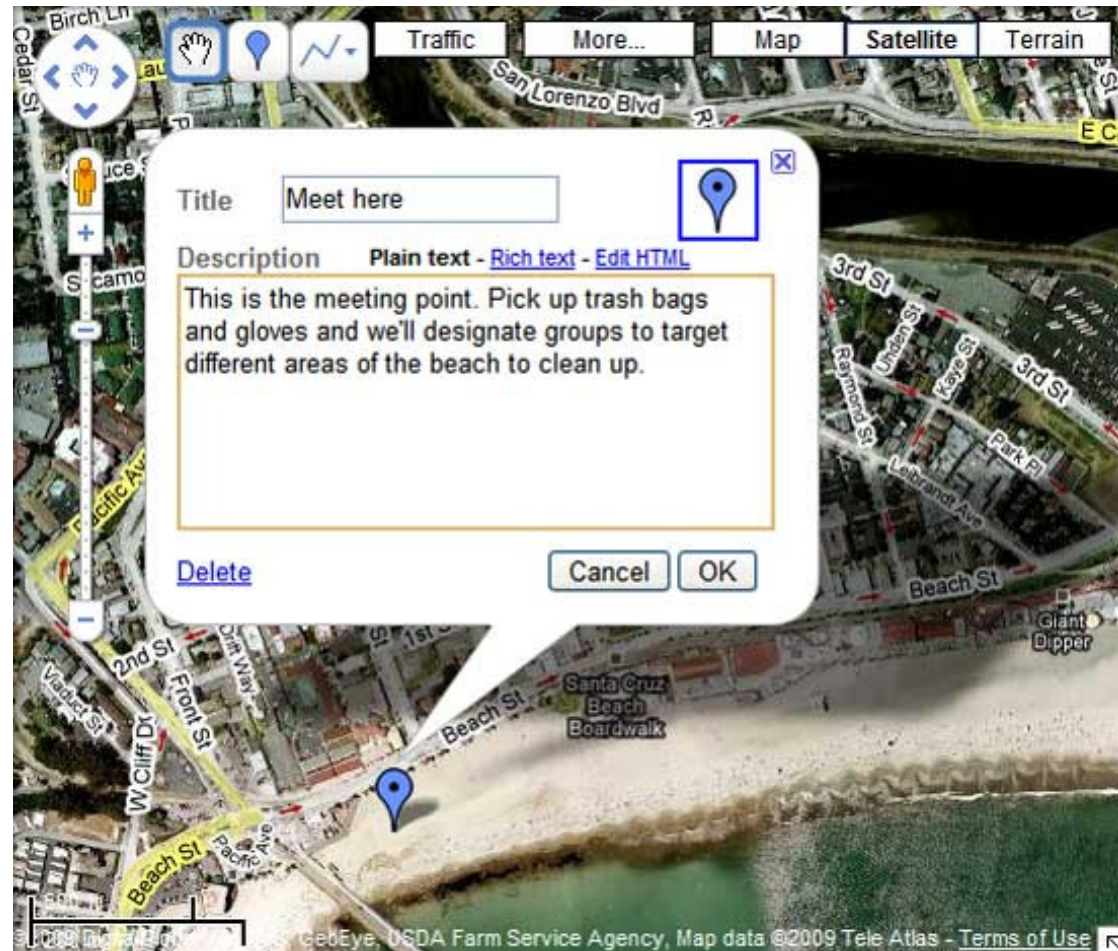
5. Set the Privacy and Sharing Settings to "Unlisted."

Create a Point in Google My Maps

1. Click the placemark button to add a new placemark.

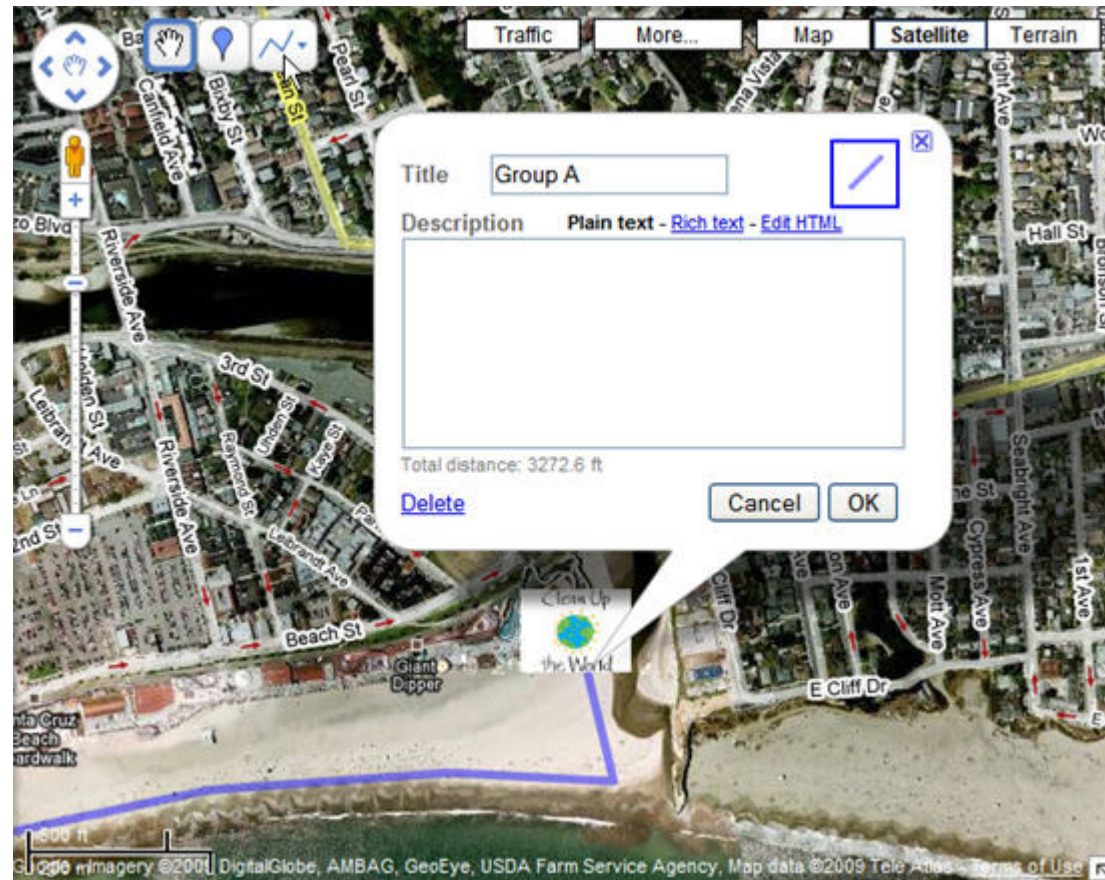2. Give the new placemark a title and description.

You can use "Rich Text" to add formatting, images, and video.

Create Lines & Polygons

1. Click the line [line icon] button to add a new line.

2. Give the new line a title and description.

You can use "Rich Text" to add formatting, images, and video.

# Web address of workshop site

sites.google.com/site/imnworkshop

If you click on "Data, Files, and Links for Workshop", you can access the IMN logo for practicing adding your own custom icons.

Google

Embed Photos into Balloons

To copy image URL from the web:

1. Go to http://images.google.com

2. Find an image that you want to add.

3. Right-click & choose "Copy Shortcut"

4. Click on the icon to insert image.

5. Paste in the URL shortcut, and click OK.
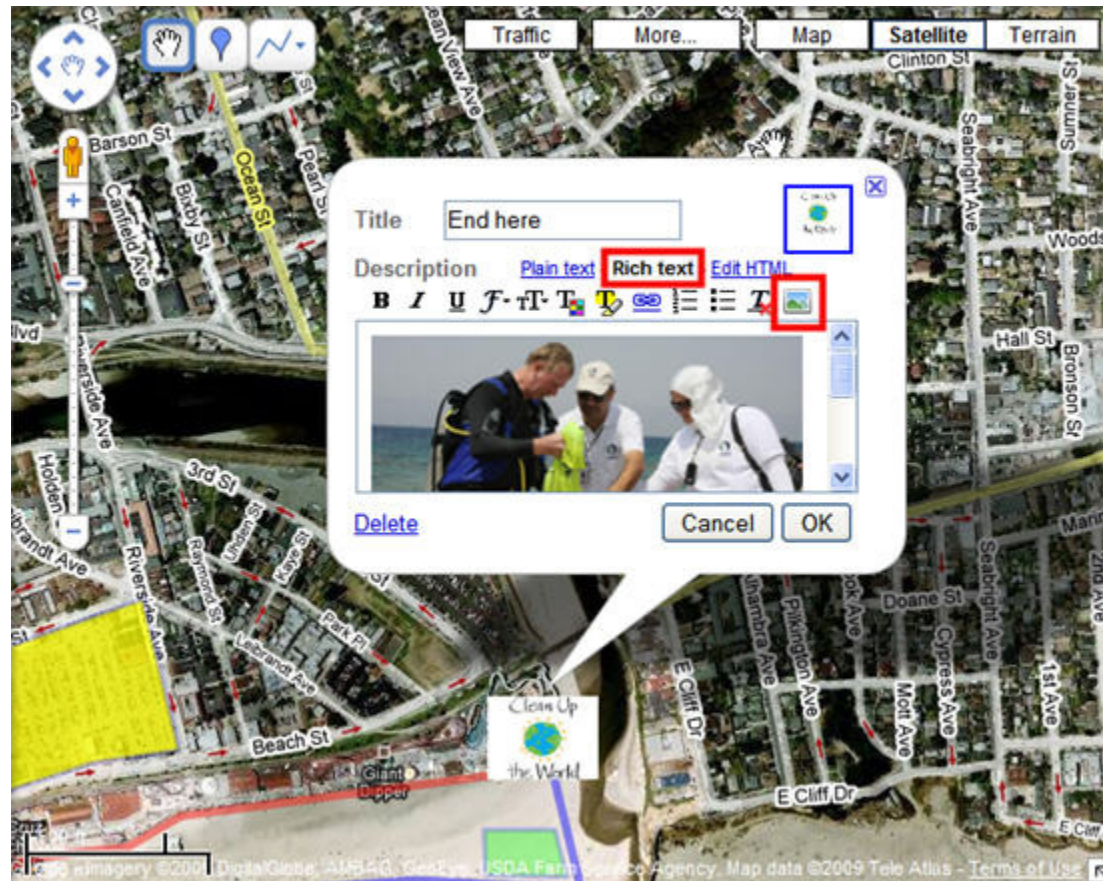
Embed Videos into Balloons

To copy video embed code from the web:

1. Go to http://youtube.com

2. Find an video that you want to add.

3. Copy the "Embed" code.

4. Back in your balloon editing, click on "Edit HTML"

5. Paste in the Embed code, and click OK.
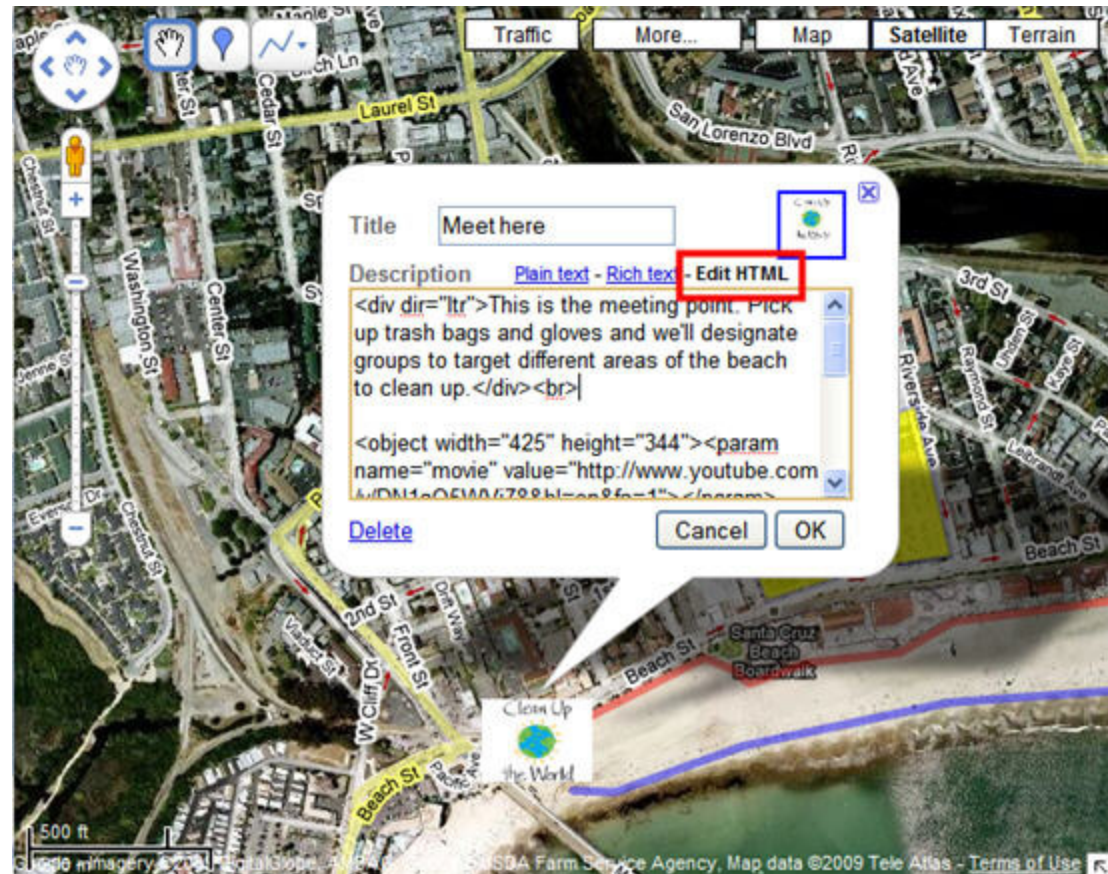
Collaborating on Your Maps
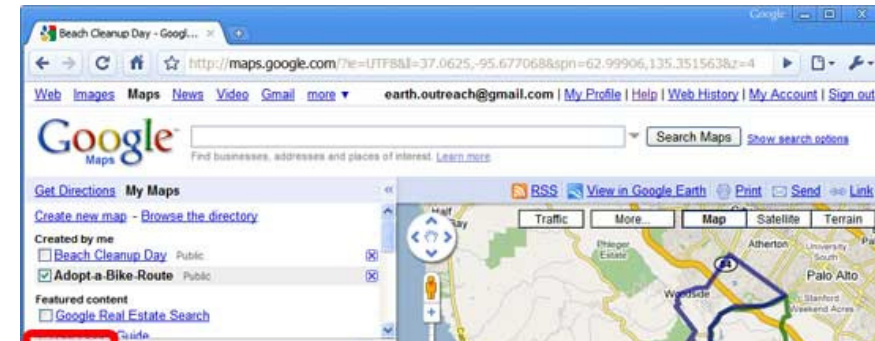
Collaborate on Your Map

1. To collaborate on your map, click "Collaborate"

2. Add the emails you want to share the map with.

3. Click "Send invitations"

Embedding your My Map in your Website

Google

Embed your My Map in a Website

1. Click the "Link" link to the upper-right of your map.

2. Copy the embed code under "Paste HTML to embed in website."

3. Paste this code in the HTML of your website. (You can use Blogger or Google Sites if you wish.)
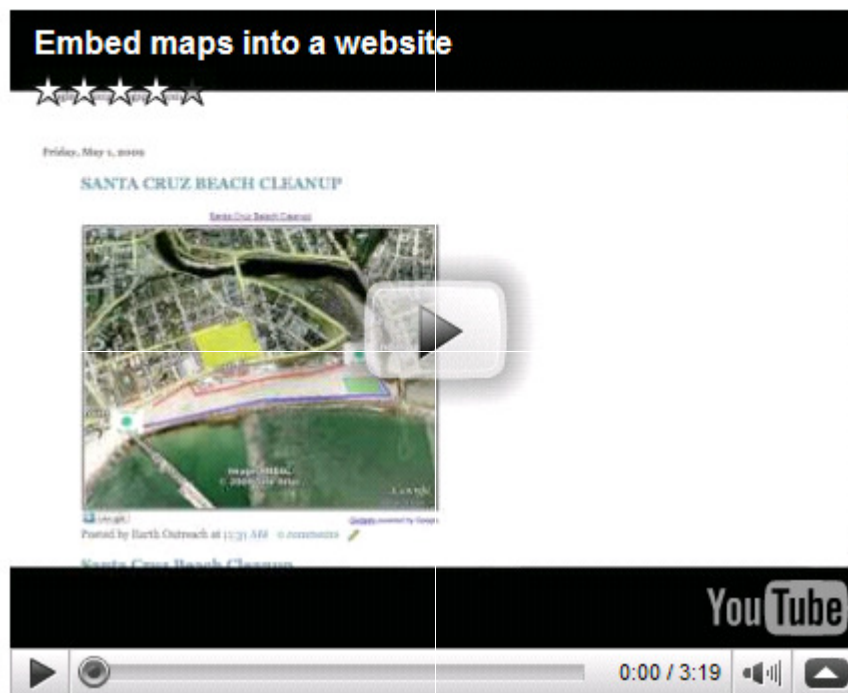
Google

View your My Map in Google Earth

1. Click the "View in Google Earth" link at the upper-right of your map.
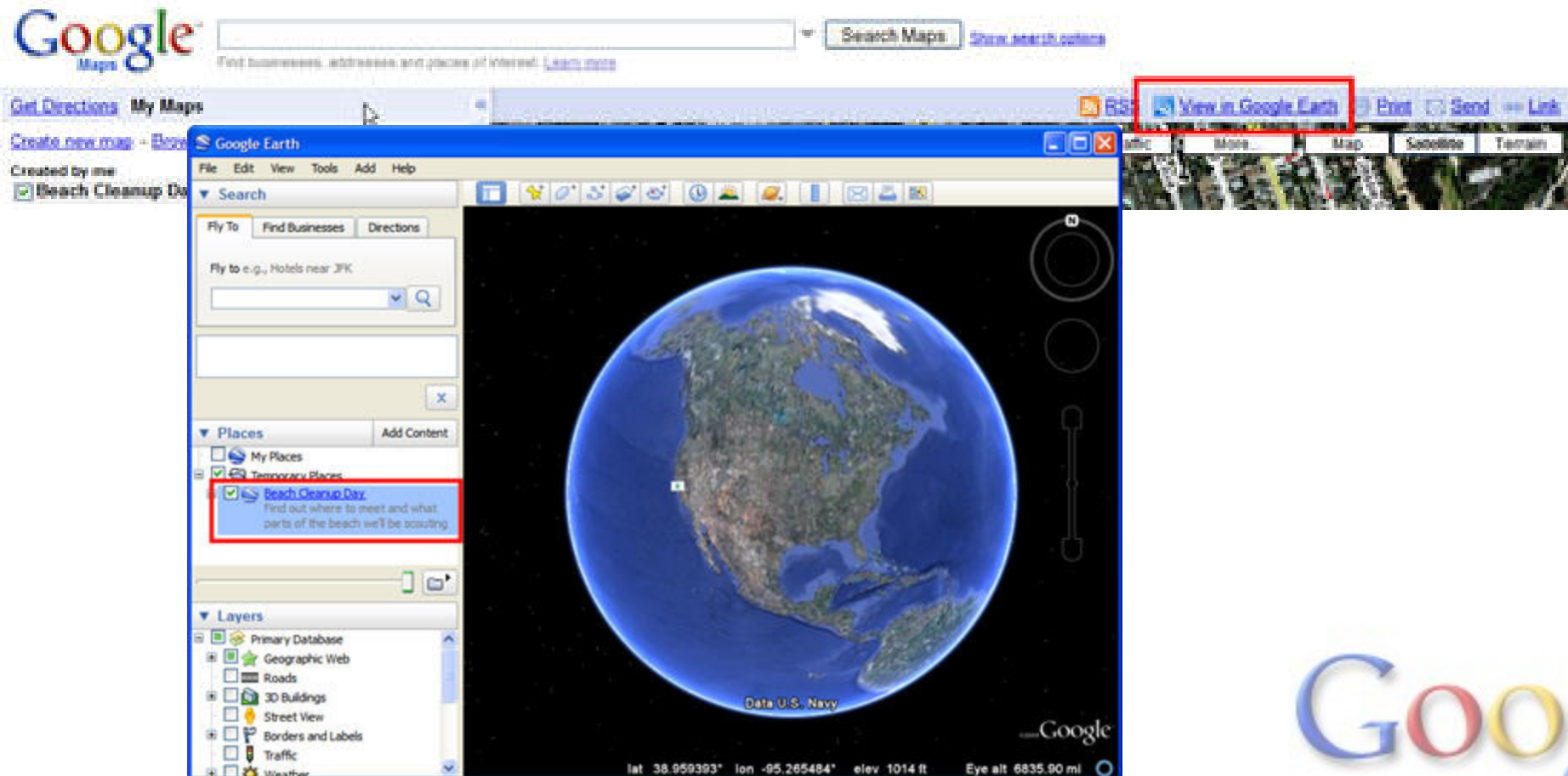
Review of Google Maps

- Navigating in Google Maps
- Creating content in Google Maps
  - Placemarks (points)
  - Lines (paths)
  - Polygons (shapes)
- Changing style (color, width, transparency)
- Embedding images and videos in balloons
- Collaborating on a Google Map
- Embedding a Google Map on your website
- Viewing your map in Google Earth

Google™

Examples of My Maps

- Boulder Creek Cleanup: URL

- CleanUpTheWorld.org: URL

- Finished product of tutorial (beach cleanup)

- KPBS Fire map: URL

- Catanduanes: http://earth.google.com/outreach/showcase.html

Tomorrow: Focus on Google Earth

- Hands-on Exercises:
  - Creating points, lines, & polygons
  - Adding photos & videos to balloons
  - Adding image overlays
  - Converting GIS data
  - Creating a narrated tour
  - Saving your file and uploading it to the Internet
  - Publishing & Embedding Google Earth on your website

Google