

## Using Google My Maps

In this lab exercise, you will learn how to use Google My Maps as a medium to create points and polygons on a map, and understand the extensibility of the platform through its “collaborate” feature.

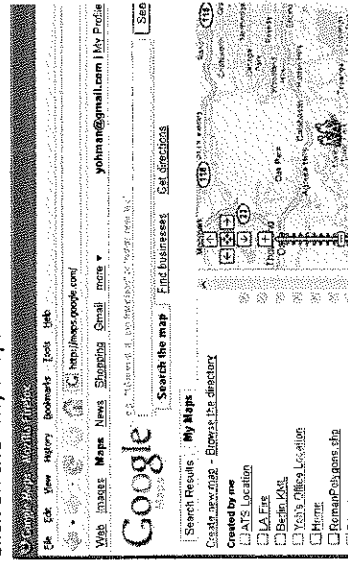
Furthermore, you will learn how to use Google Spreadsheets as a way to enter GPS data that can then be published onto a Google Map.

**NOTE:** For this assignment, you must have a Google account to gain access to Google My Maps and Google Docs.

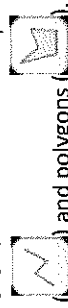
### Creating a Google My Maps Project

1. Go to <http://maps.google.com> and sign in.

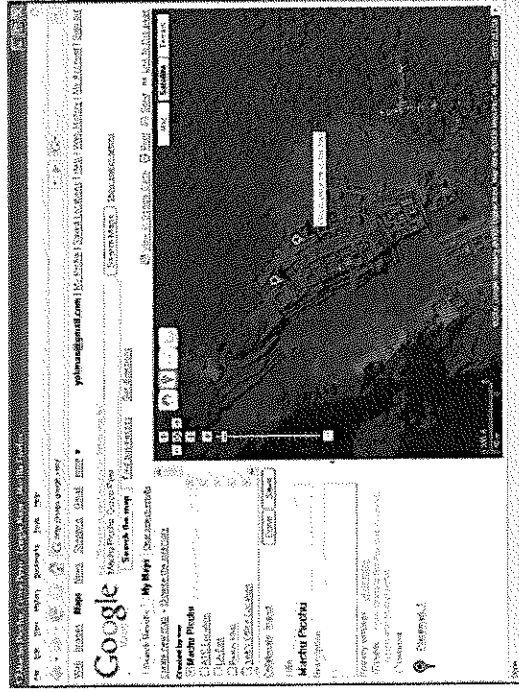
2. Click on the “My Maps” tab.



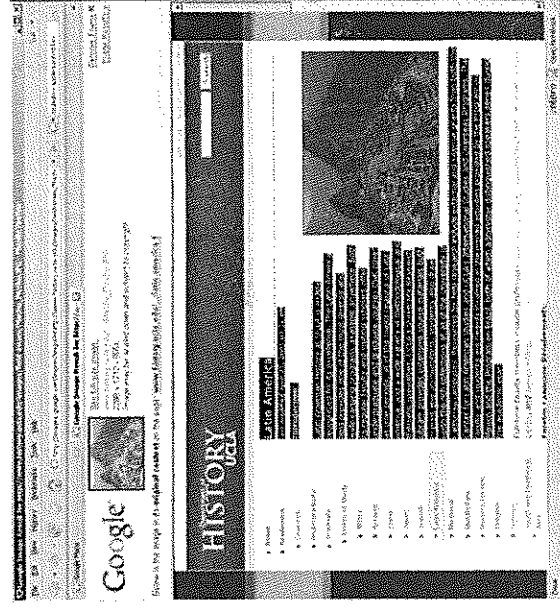
3. Click on “Create a new map”. Notice the icons to create points (📍), lines (📏),



4. Zoom to an area of interest, and start marking up the map with your own custom markers.

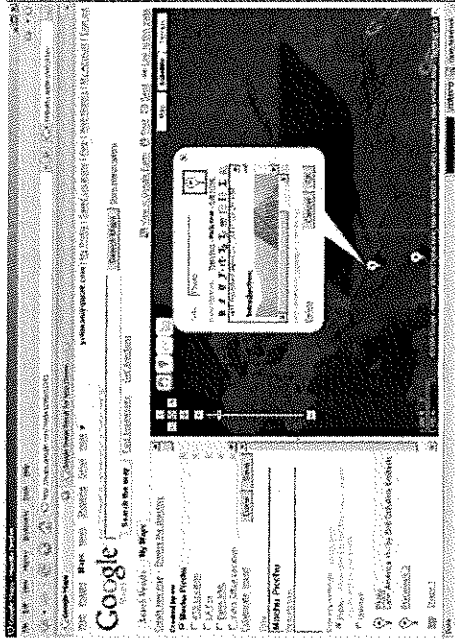


5. Now let's create content for an “info bubble” for one of the markers on your map. Go to <http://images.google.com> and search for an image of your marker (ex: Machu Picchu). Select an image, and copy and paste a portion of text *and* image from a website. (Notice the highlighted area below)



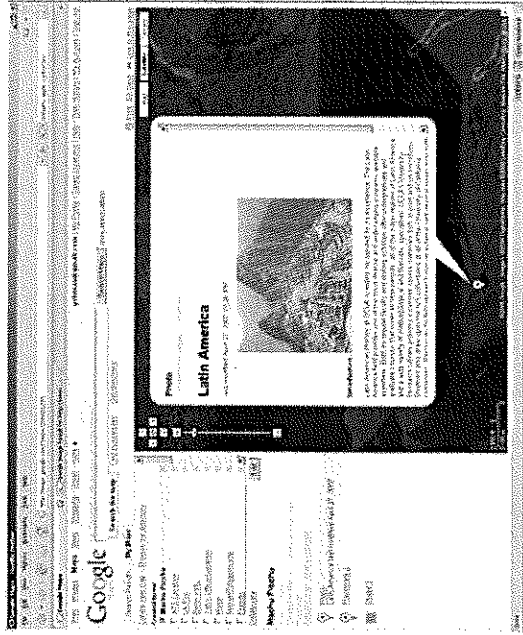
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- Go back to your Google My Maps project, make sure you are still in edit mode, and click on a marker you created. Make sure to select **Rich Text**, then paste (ctrl-v) into the text box.



- Click on the "done" button to save your project.

- Now click on the marker again and you should see all your pasted content in the info bubble.



## Using Google Spreadsheets as a Database for Google My Maps

In the previous exercise, you learned how to add points to a google map one by one. What if you had a spreadsheet with lot's points, say from an excavation excursion? It would be extremely tedious to have to recreate all the points by clicking on the map.

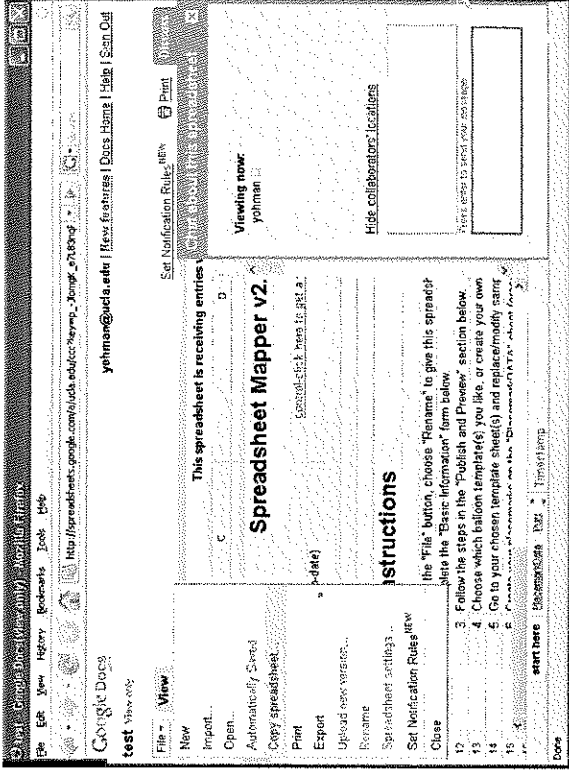
The following exercise will teach you how to use a google spreadsheet as a database of points that will feed the information that is supplied to your Google My Maps project.

- Access the Google Spreadsheet template here:

<http://spreadsheets.google.com/ccc?key=pnUarC7ifxovJbYICxbKTg&hl=en>

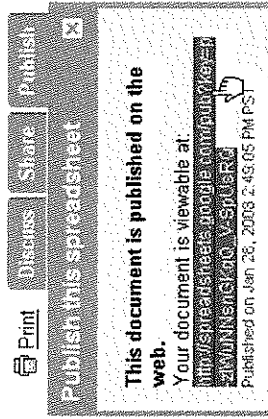
if you are not logged on, it will ask you to do so.

- Go to file and select "Copy spreadsheet" to save it in your google docs account.



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- Notice that the cells in the spreadsheet are color coded. You are only supposed to edit white cells. Go ahead and make changes on the white cells as you see fit.
- In order to view your spreadsheet data on Google Maps, you must first publish the spreadsheet. Scroll down to line 73 of your spreadsheet and follow the instructions.



- Publish spreadsheet:**
  - Click the "Publish" tab (upper right), then click the "
  - Paste published URL here: [http://spreadsheets.google.com/pub?key=24741N8G4GQ\\_4SPJ4RKA](http://spreadsheets.google.com/pub?key=24741N8G4GQ_4SPJ4RKA).

- Now go down to line 85, and control-click on the cell to view in Google Maps. You should now see a map of San Francisco with 4 colored icons.

- View Placemarks in Google Maps:**
  - Link to Google Maps Control-Click this cell to view

How did these icons know to be where they were? And how did they know what color to be? Where did the information in the pop-ups come from?

- Go back to the google spreadsheet, and click on the **PlacemarkData** tab (at the bottom of the page).

# / ID	Folder Name (optional) <small>(use empty field for folders together)</small>	Placemark Name <small>(for labels &amp; places too)</small>	Latitude	Longitude	Coordinates and/or Address	Template #
1	Purple icons	Sample (#1)	37.755661	-122.497677		1
2	Red icons	Sample (#2)	37.7332682	-122.449601		2
3	Yellow icons	Sample (#3)	37.755661	-122.401529		3
4	Green icons	Sample (#4)	37.728943	-122.419907		4

- Notice there are 4 rows populated with data. Each row represents one placemaker on the map. The column "Template #" will determine what color icon will be used to display on the map. The legend for the templates are shown on the top of the page:

!!S!	Template Sheet Name	Template Name	Template #	Unique Variables:
	Purple	Tell Photo	1	Title
	Red	Tell Photo	2	Title
	Yellow	Tell Photo	3	Title
	Green	Tell Photo	4	Title
		Use when sheet name is not entered	5	
		Use when sheet name is not entered	6	

Coordinates and/or Address		Template #	Enter template # in cell
Latitude	Longitude	Template #	Title
37.755661	-122.497677	1	New Zealand
37.7332682	-122.449601	2	Velemir
37.755661	-122.401529	3	Charles Bridge - Prague C
37.728943	-122.419907	4	Nové Město

- If you scroll to the right, you will notice the columns marked by the yellow headers. These are the fields that will populate the info bubble that pops up when you click on the marker in Google Maps.

row #	Enter template # in cell	URL to update column header guide below (now displaying: Template #1 Tall Photo)	Links URL	Link T
11	New Zealand	http://earth.outreach.org: Milford Sound	Paragraph1 Text	Paragraph2 Text
12	Velemir	http://earth.outreach.org: Luem ipsum dolor sit, Lorem ipsum dolor sit, http://en.wikipedia.org, http://en.wikipedia.org, http://en.wikipedia.org	Paragraph1 Text	Paragraph2 Text
13	Charles Bridge - Prague C	http://earth.outreach.org: Nulla metus metus, et Lorem ipsum dolor sit, http://en.wikipedia.org, http://en.wikipedia.org, http://en.wikipedia.org	Paragraph1 Text	Paragraph2 Text
14	Nové Město	http://earth.outreach.org: Nulla metus metus, et Lorem ipsum dolor sit, http://en.wikipedia.org, http://en.wikipedia.org, http://en.wikipedia.org	Paragraph1 Text	Paragraph2 Text

- Now let's populate this spreadsheet with our own data. Open the class dataset Karanis.xls in Excel.

Recording	A	B	C	D	E	F	G	H	I
1	KMPF	NS	11/3/2004	Individual feature	Site U13	L Basin	29.51995217420	30.9026112636	-11.00
2	KMPF	NS	12/4/2004	Individual feature	E-29-H	X Basin	29.51943616190	30.907944990	-3.00
3	KMPF	NS	11/4/2004	Individual feature	Site U19	L Basin	29.51919634410	30.902903190	10.00
4	KMPF	NS	11/4/2004	Individual feature	Site U19	L Basin	29.51919634410	30.902903190	9.00
5	KMPF	NS	11/4/2004	Individual feature	Site U19	L Basin	29.51919634410	30.902903190	10.00
6	KMPF	NS	11/4/2004	Individual feature	Site U19	L Basin	29.51919634410	30.902903190	10.00
7	KMPF	NS	11/4/2004	Individual feature	E-29-H	X Basin	29.51943616190	30.907944990	8.00
8	KMPF	NS	11/4/2004	Individual feature	E-29-H	X Basin	29.51943616190	30.907944990	8.00
9	KMPF	NS	11/4/2004	Individual feature	E-29-H	X Basin	29.51943616190	30.907944990	8.00
10	KMPF	NS	11/4/2004	Individual feature	E-29-H	X Basin	29.51943616190	30.907944990	8.00
11	KMPF	NS	11/4/2004	Individual feature	E-29-H	X Basin	29.51943616190	30.907944990	8.00
12	KMPF	NS	11/4/2004	Individual feature	E-29-H	X Basin	29.51943616190	30.907944990	8.00
13	KMPF	NS	11/4/2004	Individual feature	E-29-H	X Basin	29.51943616190	30.907944990	8.00

