MAKING A CLASS MAP WITH GOOGLE FUSION TABLES
Jen Mapes: jmapes@kent.edu

1: Create Google Form in Google Drive
2. Give form link (and further instructions) to students
3. When submission deadline has passed, Create a Fusion Table out of your “Responses” Spreadsheet (created automatically by Google Forms). If Fusion Tables does not show up as an option, you will need to “Connect more apps,” and select it. With a Kent account, you may need to go through an extra step. Ask me or a Help Desk person for assistance if you run into this problem.
4. Change type for your Lat/Long column to “Location.” Incorrect formats will be highlighted in yellow.
This arrow will let you choose “change column”

5. Change column for Image URL to Format: Eight Line Image
<table>
<thead>
<tr>
<th>Timestamp</th>
<th>User</th>
<th>Name of place</th>
<th>Image URL</th>
<th>Description: How is this a cultural clue?</th>
<th>Latitude, Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/1/2014 21:41:57</td>
<td>es...</td>
<td>Italian American Society</td>
<td></td>
<td>This photo represents the deep Italian roots of local residents. Founded in 1799, named after Ravenna, Italy. These ethnic clubs were formed around a common interest, being Italian-American immigrants or their descendants in this case, for social gatherings and activities.</td>
<td>41.149843, -81.244566</td>
</tr>
<tr>
<td>5/1/2014 21:49:39</td>
<td>lto...</td>
<td>Loyal Oak Tavern</td>
<td></td>
<td>This very old building is a symbolic landscape. It dates back to the middle of the 1800’s. Originally this building was used as a hotel and is now used as a bar/restaurant. This building has an underground tunnel that takes you to a building across the street. Because of there was never a real clear use of this tunnel it has been said to be part of the Underground Railroad. This part of Norton was known as Loyal Oak Township. There is also a cider mill just a bit down the street from these two buildings that date back to the 1800’s as well. Here's a link to more history in this area: <a href="http://www.citiesofnorton.org/General/20l">http://www.citiesofnorton.org/General/20l</a>...</td>
<td>41.050413, -81.637666</td>
</tr>
<tr>
<td>5/1/2014 21:51:43</td>
<td>es...</td>
<td>Geauga County - Portage County border</td>
<td></td>
<td>This sign is an example of a political border, leaving Portage County and entering Geauga County. This is the beginning of a cultural change as well, heading into Amish country.</td>
<td>41.3474884, -81.0857368</td>
</tr>
<tr>
<td>05/01/2014 21:54:01</td>
<td>es...</td>
<td>Economic sector - Tertiary employment</td>
<td></td>
<td>This is a great example of Tertiary employment. These workers are connecting the Cuyahoga River bank steel wall to anchors. This type of heavy machine/construction work has been around since the Industrial Revolution and is what built our country’s infrastructure.</td>
<td>41.4859396, -81.6864093</td>
</tr>
<tr>
<td>5/1/2014 21:55:45</td>
<td>es...</td>
<td>Cuyahoga River bank</td>
<td></td>
<td>Humans are working “control nature” in this photo by connecting anchors to a heavy steel wall by using steel beams. This is being done because the bank is eroding and the wall needs to be reinforced for both economic and safety purposes. This must be done to maintain an open river channel. Cleveland is a culture of heavy construction and this activity fits right into that.</td>
<td>41.4859396, -81.6894093</td>
</tr>
<tr>
<td>5/1/2014 22:01:47</td>
<td>es...</td>
<td>West Branch State Park</td>
<td></td>
<td>This beautiful sunset photo taken at West Branch State Park represents a landscape of beauty. Most people find peace and...</td>
<td>41.1348845, -81.1050989</td>
</tr>
</tbody>
</table>
6. Choose the map tab, and your lat/longs will be geocoded on a map for you. If you use addresses instead, this may take an extra few minutes.

7. The option to configure your map should show up when your map is created. If it disappears, go to Tools/Change Map. You will then see two options: Change feature styles (the dots on the map), and change info window (what pops up when you click on the dots).
8. If you’d like to change the dots, or have them represented by different colors/styles depending on the values, then you’ll change the feature styles. Column allows you to use your spreadsheet (or form) to select what icon will appear with each submission. Buckets allows you to tie color/style to the data submitted.

For my assignment, I did not use this feature.
9. You can use the Change Info Window Layout feature to hide the timestamp, student name, username, lat/long, etc. If you choose the Custom option, you can edit the HTML for each info window.

For this assignment, I typically delete timestamp, username, lat/long, and the student’s name. I also hide the Column name for the Name of Place, Image URL, and Description, letting them stand alone.

The ability to edit the HTML also allows you to concatenate information from your column using bracket:
This is what the final map looks like for the instructor.
For students, you can share the map by itself by choosing Publish, and either sending them the link or embedding the map in your class website, using the HTML that Google provides.
I use Google URL shortener to share links (which also keeps track of the number of clicks). Here is the URL for this map:

http://goo.gl/9jQUCL
Another nice option you have as the map’s “owner” is the ability to filter by student name for grading.
HOW CAN I USE GOOGLE FUSION TABLES FOR MY CLASS?

English literature: Map a character’s journeys, tag locations with quotes from the book
History: Create a map of key events, by theme, time period, or location
Botany: Create a map of specimens collected, with photos.
Ecology: Track animal sightings or other environmental attributes
Geology: Map volcanoes around the world, or examples of rocks found at certain locations
Public Health: Map threats to health, environmental hazards

Keep in mind that:

• One of the great things about Google Maps is that you can work at all scales. So you could create a map of just on field in Cuyahoga Valley National Park, for example, or you could create a map of Cleveland, or of Ohio, or the United States, or the world.

• Data collection can be “virtual.” Images can be taken from the internet instead of uploading. If the map is made public, be sure to use only those with Creative Commons license. Right click on a photo and choose “Copy Image URL”