

Google Fusion Table exercise

Exercise for students of ENVR E119

A Google fusion table is essentially a spreadsheet on the web that can contain thousands of rows of data. Fusion tables can be linked to one another based on common columns, similar to what a database can do. Also, a column containing geographic information in a fusion table can be mapped. In this exercise you'll load a couple of Excel spreadsheets into fusion tables, and map them.

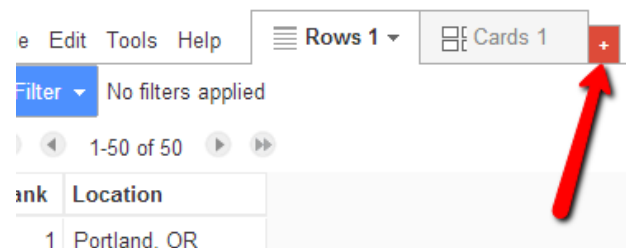
1 Download and open the sustainable_cities.xls spreadsheet, available on the class website, or by clicking [here](#). Notice it contains a list of city, state locations for cities in the U.S., and a "sustainability" ranking. This was a report from Popular Science magazine circa 2010

- 1.1 Go to [Google Drive](#). Sign in to your Google Account or create a [Google Account](#) if you don't already have one.
 - 1.2 Click NEW > More > Connect more apps at the bottom of the resulting list.
 - 1.3 Type "fusion tables" in the "Search Apps" box and hit the "Enter" key.
 - 1.4 Click the blue "+ CONNECT" button, then click the "OK" button in the confirmation dialog box.
 - 1.5 Click "Create > Fusion Table (experimental)".
 - 1.6 In the Import new table dialog box, click "Choose File".
- This will launch the Import new table wizard.

2 Click **Choose File**, and browse to the Sustainable_Cities.xls spreadsheet that you downloaded. Choose the spreadsheet, and click **OK**. Then click **Next**. The Import new table wizard will show a preview of your table. Click **Next** again, and **Finish**. Now you've created a fusion table with your data in it.

In the fusion table, click **Edit > Change columns**. Click on the **Location** column. Change the **Type** to **Location**, and click **Save**. The table will recognize locational data, and highlight it in yellow.

3 Click the red button (see arrow at right) and choose **Add Map**. Make sure Location is set your Location field, and your cities will be geocoded automatically. Next an interactive map of these locations will appear.



Now let's color the dots based on their sustainability ranking.

4 Click the “**Change feature styles...**” button.

5 In the Change map styles window, click on **Buckets**.

Specify:

- 4 buckets
- Column “Rank”
- And click the “use this range” link next to 1-50. Your screen should look like this:

Change map styles

Points
Marker icon

Polygons
Fill color
Border color
Border width

Map marker icons
Fixed Column Buckets

Use one icon


Divide into 4 buckets

Column Rank

1 - 50 [use this range](#)

+	1.0	up to 13.25	Yellow	
+	-	13.25	up to 25.5	Green
+	-	25.5	up to 37.75	Purple
+	-	37.75	up to 50.0	Red
	50.0			

Still within the Change map styles window, click “**Automatic legend**” which is the last choice on the left. Check the box next to “**Show marker legend**”.

Click Save  Now your cities will be colored according to these data classifications, or “buckets”.

To view a density map of the city locations, click the **Heatmap** button on the left.

- The map and fusion table can be shared with others by clicking the Share button.
- The locations can be downloaded into a kml file by clicking File > Download.

More tutorials on Google Fusion Tables:

<http://support.google.com/fusiontables/answer/184641>