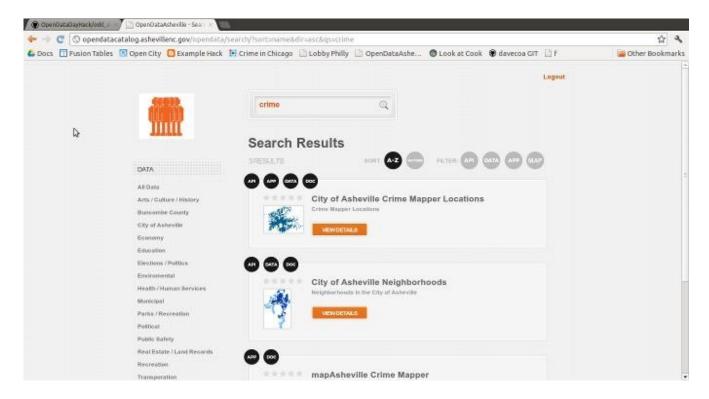
My ODD Sample Hack Directions.

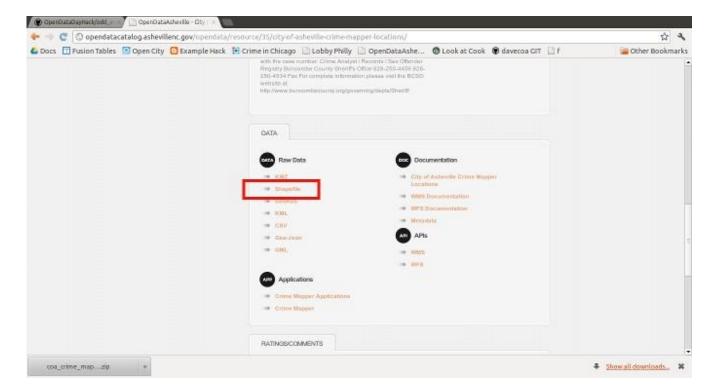
This hack took me about an hour here is what I did. I would speculate that if several people worked on the different parts then it would only take a 20 to 30 minutes with the potential of adding extra goodies.

Go to the Open Data Asheville Data Portal at http://opendatacatalog.ashevillenc.gov/

Search for Crime



Select the City of Asheville Crime Mapper Locations and under the Data area and click on the shapefile link.



Hit back on the browser and select City of Asheville Neighborhoods

Once again click to download the shapefile from the data area.

Unzip coa_asheville_neighborhoods.zip Unzip coa_crime_mapper_locations_view.zip

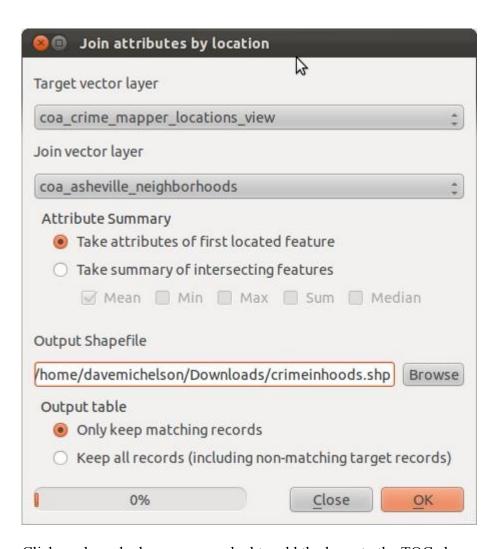
Open QGIS.

Add the layers coa asheville neighborhoods.shp and coa crime mapper locations view.shp to QGIS

Layer – add vector layer – navigate to where you downloaded and unziped the shapefiles

Now go to the menu choice Vector – Data Management Tools – Join attributes by location

Target vector layer: coa_crime_mapper_locations_view join vector layer: coa_asheville_neighborhood output is crimeinhoods.shp



Click apply and when you are asked to add the layer to the TOC choose yes.

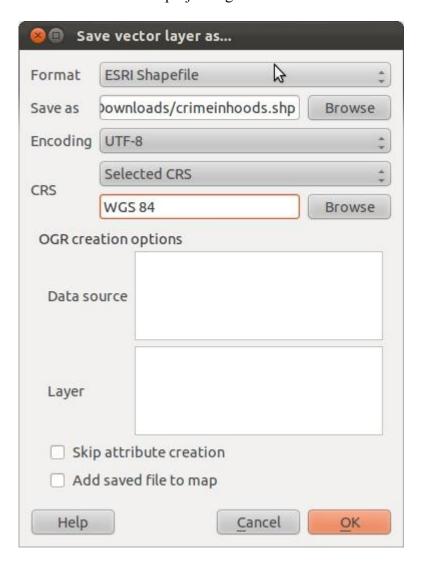
Then close when finished.

Now we need to re-project the shapefile to wgs84 to get latitude and logitude.

Right click the crimeinhoods layer in the table of contents and click on save as...

Name it crimeinhoods 4326.shp

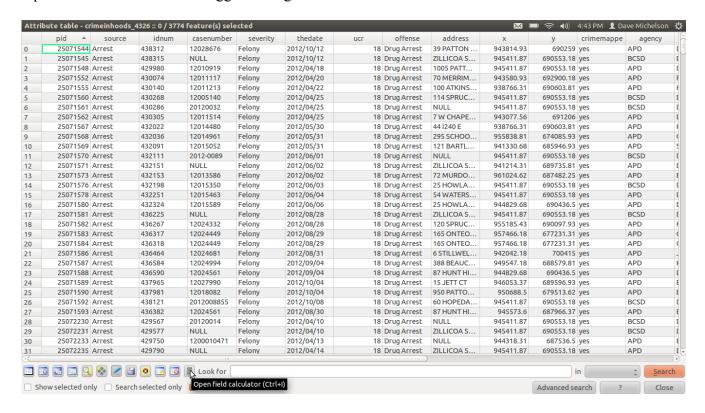
now browse for a new project wgs84



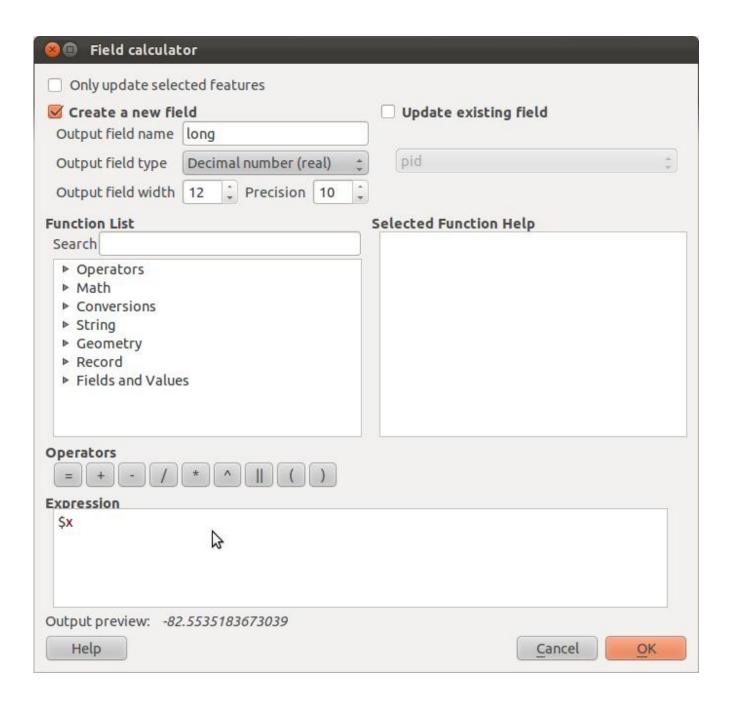
Click OK.

Add the crimeinhoods_4326.shp layer into QGIS, you will not be asked to add it to the TOC. Layer – add vector layer – browse to crimeinhoods_4326.shp

Open the attribute table and toggle editing on.

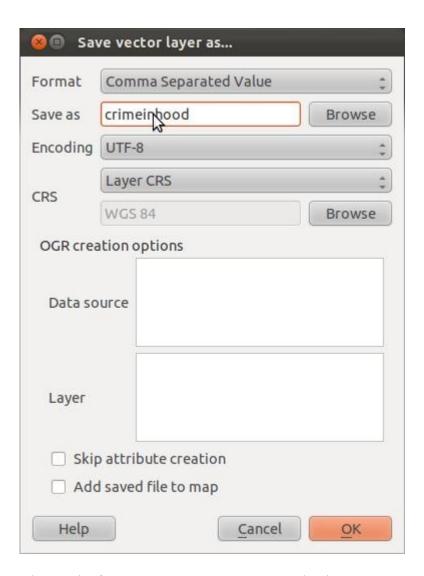


Click the field calculate utility and create two numeric (12,10) fields. One name lat on name long and calculate lat to \$y and long to \$x



Toggle the editing off and save the changes.

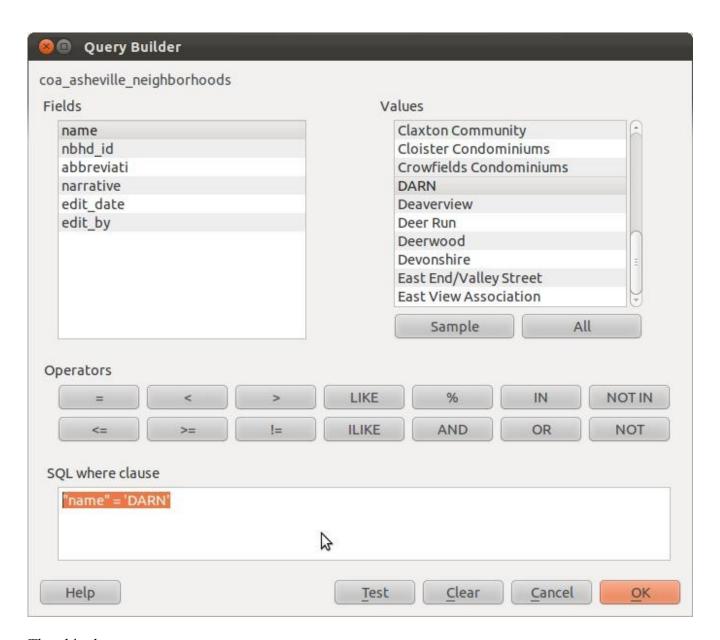
Right click the crimeinhoods layer and select save as....



Change the format to CSV comma separated value.

save as crimeinhood.csv

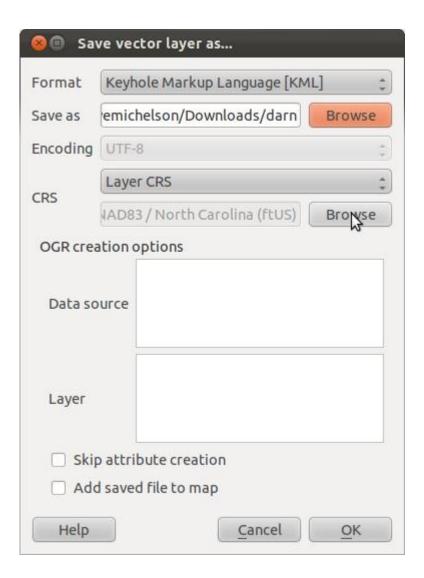
Next in QGIS select the neighbored name = DARN – right the neighborhood layer and select query.



Then hit okay

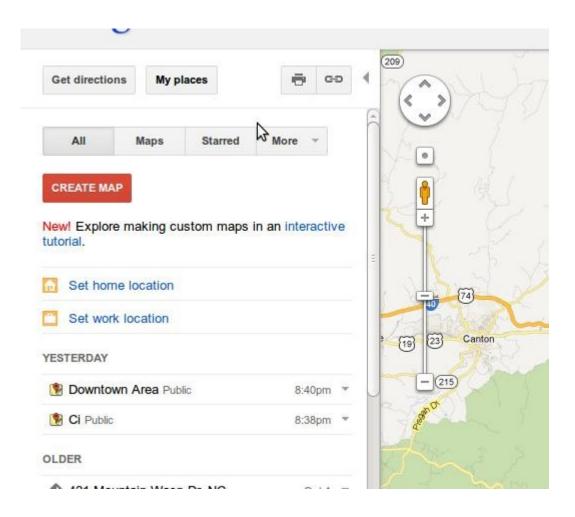
Right the neighborhood layer and choose save as...

Choose the type as kml and name it darn.kml

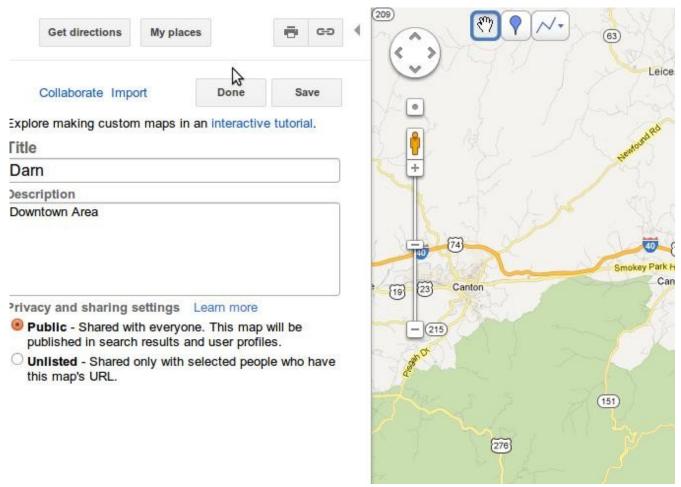


Next you will have to use a Google account to create a custom map...

In the menu of your Google account find maps and click on the link – use the my places and choose create map

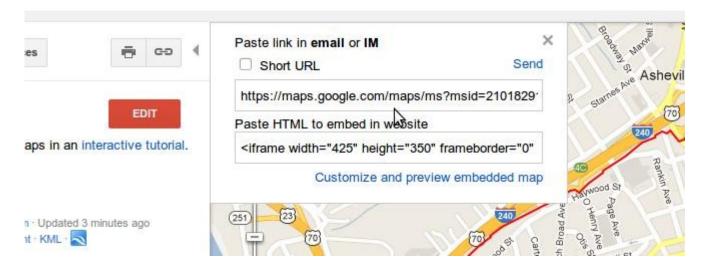


Then title it something meaningful.. Click on the import link and import the darn KML file.

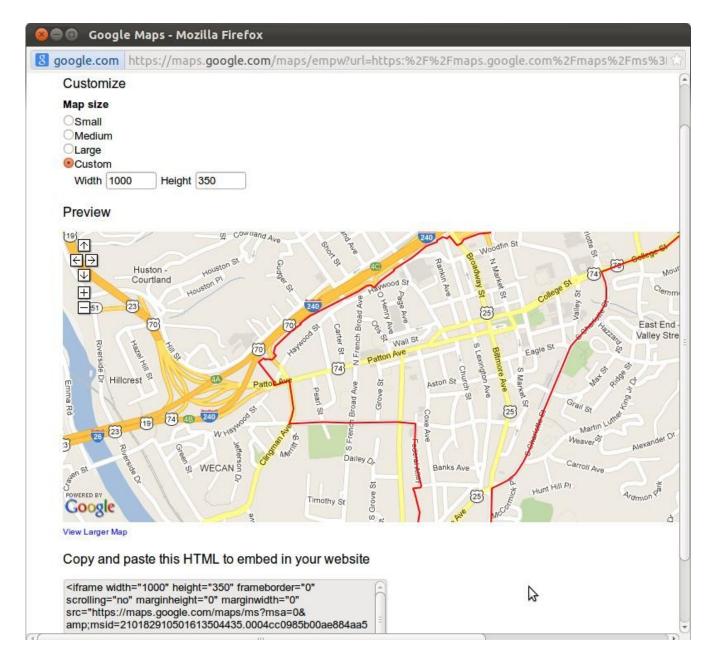


Click save then done.

Click the embed link then customize and preview embedded map link.



Then choose custom and width of 1000 and and height of 350



Copy and paste the HTML at the bottom into a HTML Editor or blog post.

<iframe width="1000" height="350" frameborder="0" scrolling="no" marginheight="0"
marginwidth="0" src="https://maps.google.com/maps/ms?</pre>

msa=0&msid=210182910501613504435.0004cc0985b00ae884aa5&hl=en&ie=UTF8&t=m&ll=35.593076,-

82.552428&spn=0.012214,0.042915&z=15&output=embed"></iframe>
/><small>View <a href="https://maps.google.com/maps/ms?"

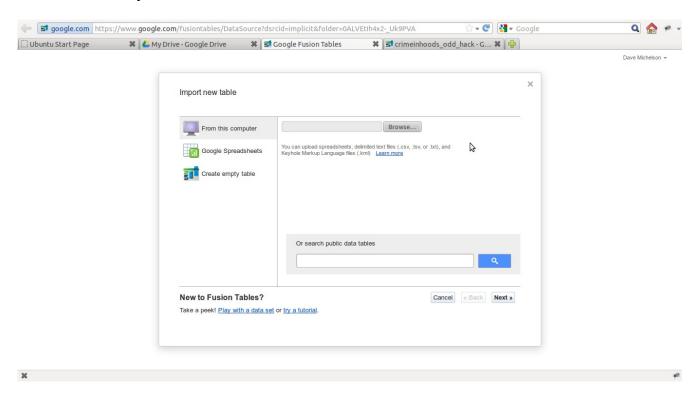
msa=0& amp; msid=210182910501613504435.0004cc0985b00ae884aa5& amp; hl=en& amp; ie=UTF8& amp; t=m& amp; ll=35.593076, -

82.552428&spn=0.012214,0.042915&z=15&source=embed" style="color:#0000FF;text-align:left">Darn in a larger map</small>

Go to your Google account and find Documents or Google Drive and add a new fusion table for the crime in hoods....

Fusion tables are under Create then the more choice (my screen shots refused to capture some of this stuff sorry)

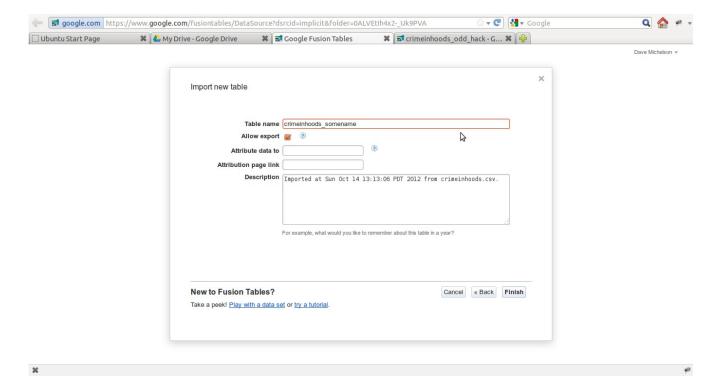
Choose to browse to a file from this computer. It should be named crimeinhoods.csv you may have named it differently which is fine



Use defaults and click next

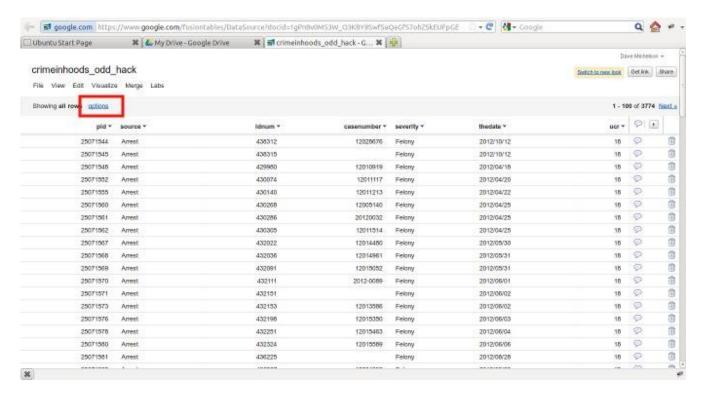
When the upload is completed click next again

Then rename it something like crimeinhoods odd hack

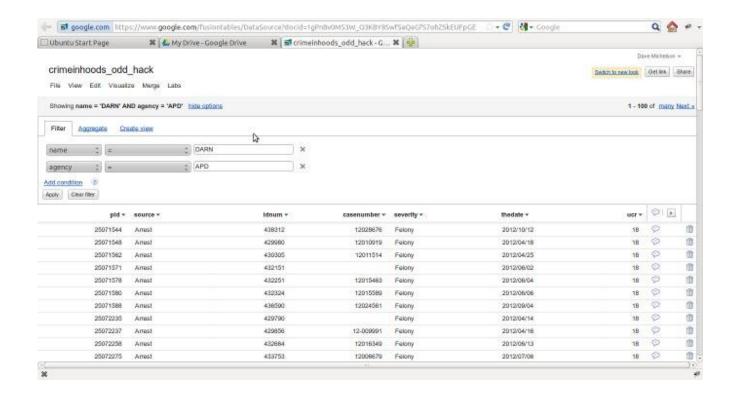


You will have to wait till it uploads to work with it...

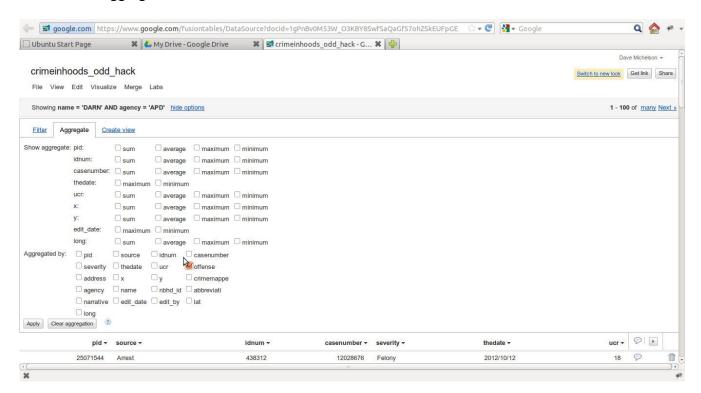
After import is complete start you analysis by clicking on the options link



Add filters for name(neighborhood) = DARN and agency = APD



Then add an aggregate for offense



From the fusion table menu choose visualize pie

Click the get embeddable code button, then the change visibility link, the choose share, and then the

Level of sharing you want. Open data day would lean towards public!

Click OK

Go back to the embeddable code and change the width to 1000 and height to 350

Copy and paste the HTML to a text editor HTML editor and make the HTML look nice. I copied to a blog post.

```
<iframe width="1000" height="350" scrolling="no" frameborder="no"
src="https://www.google.com/fusiontables/embedviz?
viz=GVIZ&amp;t=PIE&amp;containerId=gviz_canvas&amp;q=select+col7%2C+count()
+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+
%3D+&#39;DARN&#39;+and+col12+%3D+&#39;APD&#39;&amp;qrs=+and+col7+%3E
%3D+&amp;qre=+and+col7+%3C
%3D+&amp;qe=+group+by+col7+limit+9&amp;width=1000&amp;height=350"></iframe>
```

repeat the copy and paste to the HTML editor or blog post

Go back to the visualize and choose bar.

Repeat the embeddable code process width 1000 and 350 width

```
<iframe width="1000" height="350" scrolling="no" frameborder="no"
src="https://www.google.com/fusiontables/embedviz?
viz=GVIZ&amp;t=BAR&amp;containerId=gviz_canvas&amp;q=select+col7%2C+count()
+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+
%3D+&#39;DARN&#39;+and+col12+%3D+&#39;APD&#39;&amp;qrs=+and+col7+%3E
%3D+&amp;qre=+and+col7+%3C
%3D+&amp;qe=+group+by+col7+limit+9&amp;att=true&amp;width=1000&amp;height=335"></iframe>
```

I found that the bar code did not sort by the count so I hacked it and added the syntax. See the addition in red below.

```
\label{lem:continuous} $$ \end{subar} $$ \end{sub
```

repeat the copy and paste to the HTML editor or blog post

Go to the aggregate again and change the aggregate from offense to thedate. Change the visualize to line and get the embeddable code the same way

```
<iframe width="1000" height="350" scrolling="no" frameborder="no"</pre>
```

src="https://www.google.com/fusiontables/embedviz?
viz=GVIZ&t=LINE&containerId=gviz_canvas&isXyPlot=true&q=select+col5%2
C+count()+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+
%3D+'DARN'+and+col12+%3D+'APD'&qrs=+and+col5+%3E
%3D+&qre=+and+col5+%3C
%3D+&qe=+group+by+col5+order+by+col5+asc+limit+250&att=true&width=1000&a
mp;height=335"></iframe>

Again I noticed that the syntax did some things I did not like - it left out some months at the end of the graph. I hacked it like below. Change is in red.

```
<iframe width="1000" height="350" scrolling="no" frameborder="no"
src="https://www.google.com/fusiontables/embedviz?
viz=GVIZ&amp;t=LINE&amp;containerId=gviz_canvas&amp;isXyPlot=true&amp;q=select+col5%2
C+count()+from+1gPnBv0M53W_O3KBY8SwfSaQaGfS7ohZSkEUFpGE+where+col13+
%3D+&#39;DARN&#39;+and+col12+%3D+&#39;APD&#39;&amp;qrs=+and+col5+%3E
%3D+&amp;qre=+and+col5+%3C
%3D+&amp;qe=+group+by+col5+order+by+col5+asc+limit+10000&amp;att=true&amp;width=1000
&amp;height=335"></iframe>
```

repeat the copy and paste to the HTML editor or blog post

Now add a new filter for offense. Start with Drug Arrest then Larceny, and then Vandalism

in each instance I hacked the limit to 10000 to force the graph to show all dates. ..

For the maps remove the aggregates you need the lat and long fields, which aggregation leaves off. Fusion tables auto-magically recognizes the field lat and long fields as location so you should be good.

You will also need to add another filter for date. Dates are formated like 2011/10/29 in the data to replicate may maps. Then visualize and map. It should be auto-magic.

I followed the same principle for each map as the charts. I changed the width to 1000 and height to 350. Got the embedded link and repeated the copy and paste to the HTML editor or blog post.

For the map notice the check box that says display as heat map and click it. The embedded link will use that option. Got the embedded link and repeated the copy and paste to the HTML editor or blog post.

For the blog I used the blogger simple template and removed all the extra stuff. And made the the width 1200. Since this is a hack you should hack it to what you want and do exactly what I did!

Then I added the pasted HTML from above into the blog. Saved and published viola, somewhat simple hack on Open Data from Asheville.

My complete HTML that I am using on the blog post is on git hub at:

https://github.com/davecoa/OpenDataDayHack/blob/master/odd example hack post.html

feel free to us it and play with the settings and hack you own!