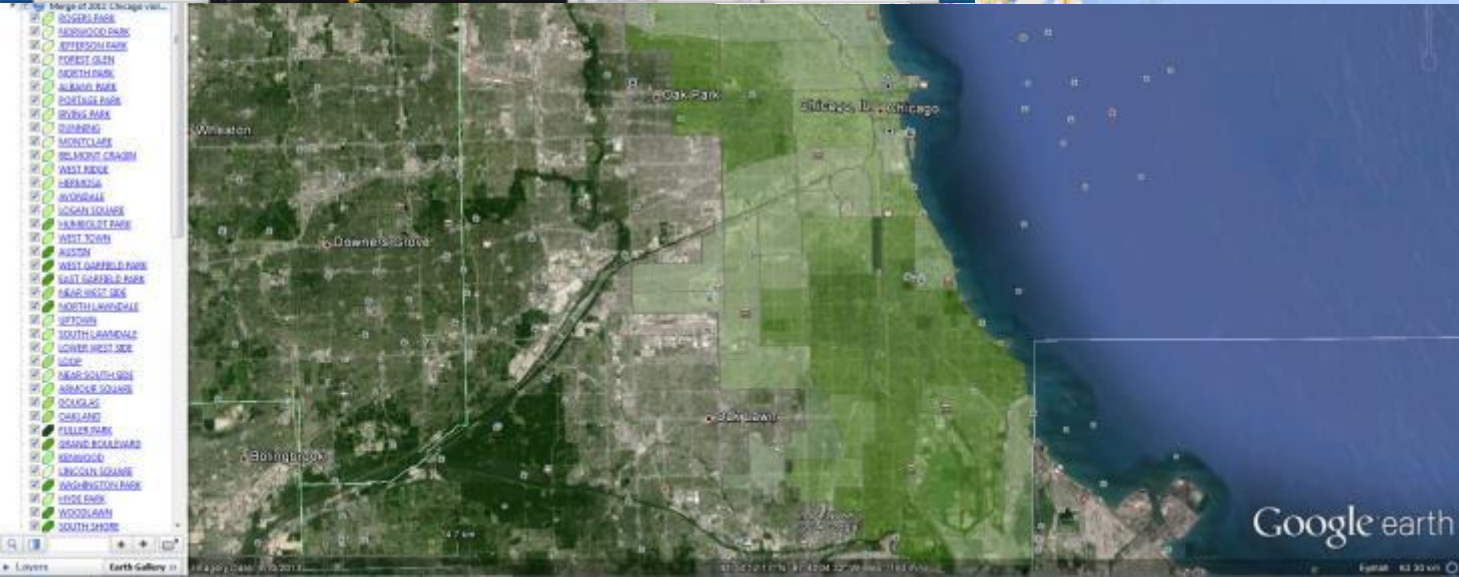


WEB CARTOGRAPHY

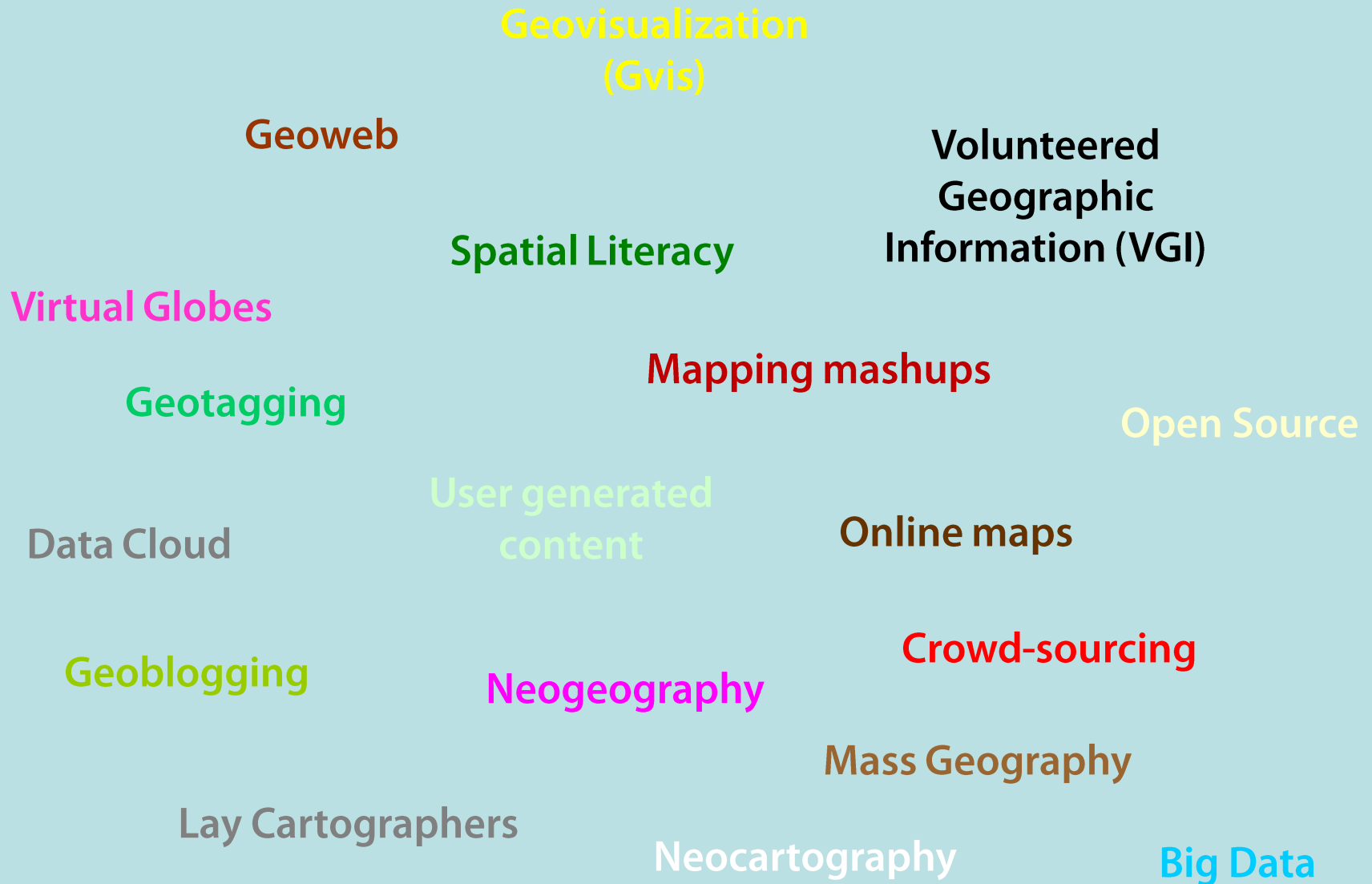
GOOGLE FUSION TABLES

2017



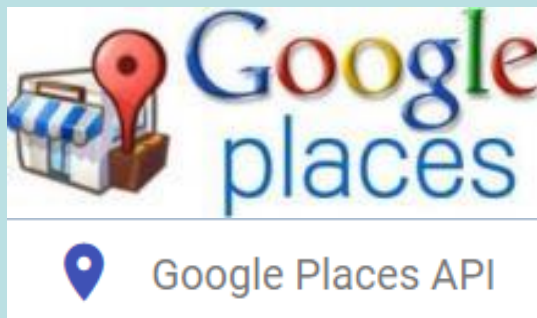
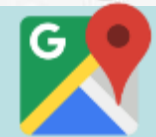
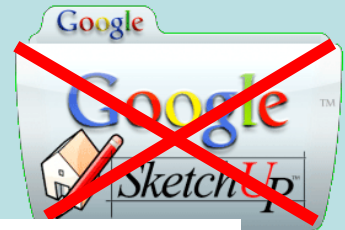
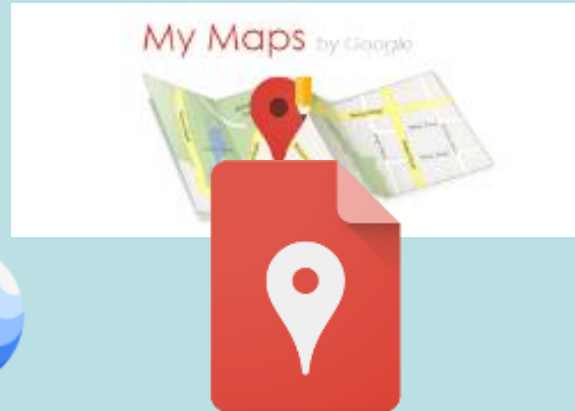
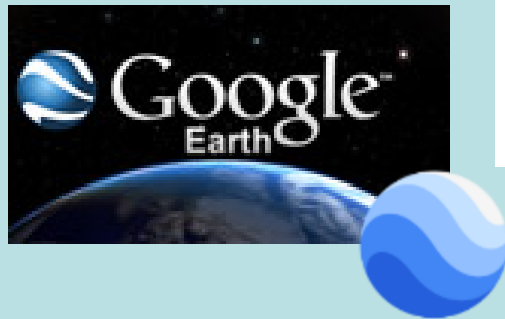
- Cloud-based map services

MAP-BASED SERVICES ON THE WEB

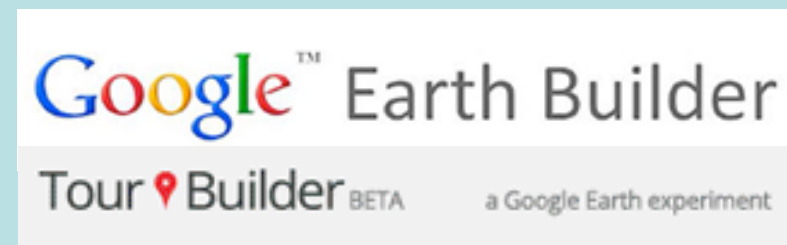


GOOGLE FUSION TABLES

Why Google?
GOOGLE GEO APIs



Google
Fusion Tables



Google Maps APIs



GOOGLE FUSION TABLES



Launched on: 5 June 2009

Disadvantages:

- Data can be only represented using choroplets, heat maps or simple symbols
- The user cannot modify the content of the base map, only its design

Advantages:

- Quick and easy data linking to a "standard map", quick and easy representation on Google Maps.
- Fast, easy and wide publication on the Web

GOOGLE FUSION TABLES

Login only with e-mail address in Gmail... Compulsory!!!

If only a data table is imported:

- By default, the data is represented as points in Google Maps – we can change the fill colour of the symbols in each category

If we open a table + map (based on shp file with polygons):

- Two types of choropleth maps can be made:
 - With continuous filled categories (Buckets)
 - With a continuous colour gradient by each category (Gradient)

Help: <http://support.google.com/fusiontables/answer/184641?hl=en>

GOOGLE FUSION TABLES

Google Drive

Search this site

About Fusion Tables Search Example Gallery Help

Fusion Tables Example Gallery

New Features

Tour

Video Gallery

Example Gallery

Tutorials

Talks & Papers

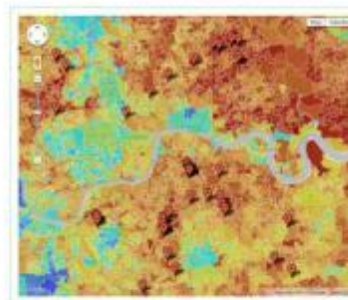
Request a feature

Fusion Tables API



Follow @GoogleFT on
Twitter

[The application](#) | [Using the API](#) | [Any shape boundaries](#) | [Info-rich windows](#) | [Making data work](#) | [Data gathering](#) | [Crisis Response](#) | [Demographics](#)



Tell the story with data

The Guardian DataBlog maps riot locations and suspects' addresses in context of social factors. [See site.](#) [How it was done](#)



Host data online

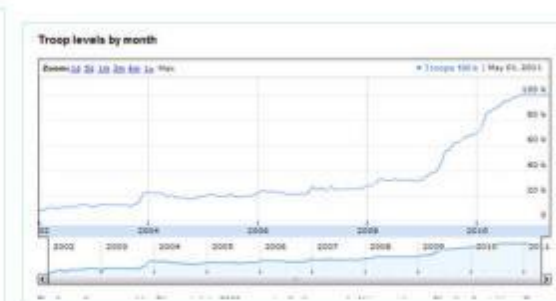
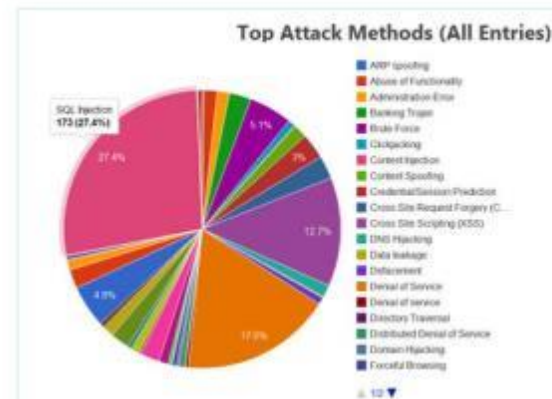
Australia offers government datasets online in Fusion Tables format. Citizens can view, filter and download hosted data with just a browser. [See site.](#)



Gather data in realtime

Google election coverage handled realtime data updates during the Iowa GOP primary to deliver results during the night as ballots were counted. [See site.](#) [How it was done](#)

Simple infographics with Fusion Tables



Troop levels over time

The Al Jazeera timeline shows how troop levels in Afghanistan have changed in the last ten years. [See site.](#)

<https://sites.google.com/site/fusiontablestalk/stories>

GOOGLE FUSION TABLES

FT files are stored in Google Drive...How to indicate to Google Drive to use Fusion Tables by first time:

The screenshot shows the Google Drive web interface. A context menu is open over a file named 'uf_5000.kml'. The 'Open with' option is highlighted with a red box and a red arrow. A secondary menu is open for 'Open with', showing 'Google Fusion Tables' as the selected application. The 'Manage apps' option in this secondary menu is also highlighted with a red box and a red arrow.

My Drive

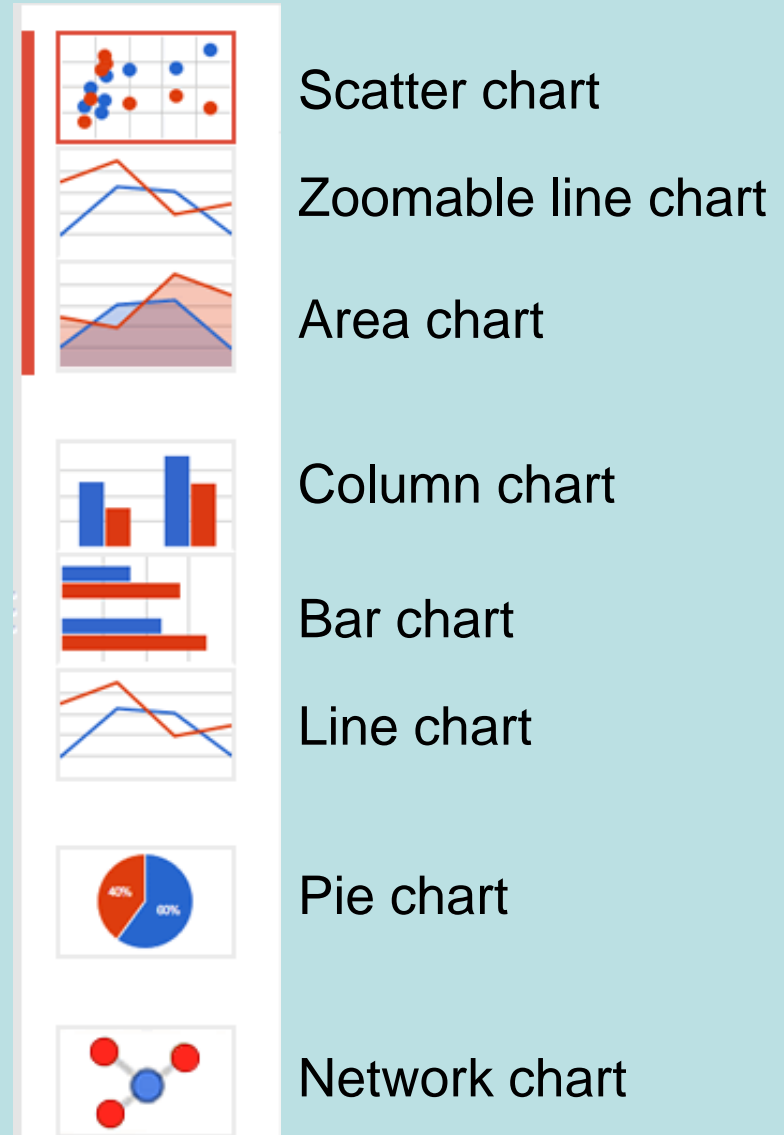
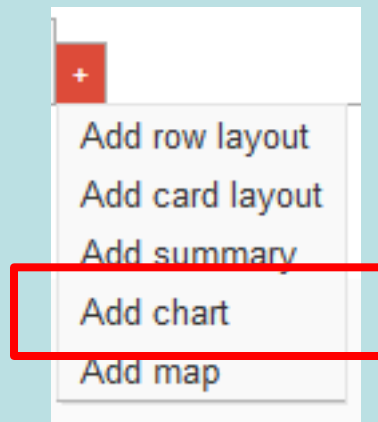
TITLE	OWNER	LAST MODIFIED
uf_5000.kml	me	10:44 me
uf_5000.shp	me	12 Aug me
Merge of 2011 Chicago violent crime and population and commareas.shp	me	2 Apr me
2011 Chicago violent crime and population	me	2 Apr me

GOOGLE FUSION TABLES

What is offered?

- Edition of data in tables, their visualization with charts and maps
- Import: text files (pl. csv), Excel tables (xls, xlsx) and Google Earth files (kml).
Max. size to import 100 Mb

Creating charts.....



Scatter chart

Zoomable line chart

Area chart

Column chart

Bar chart

Line chart

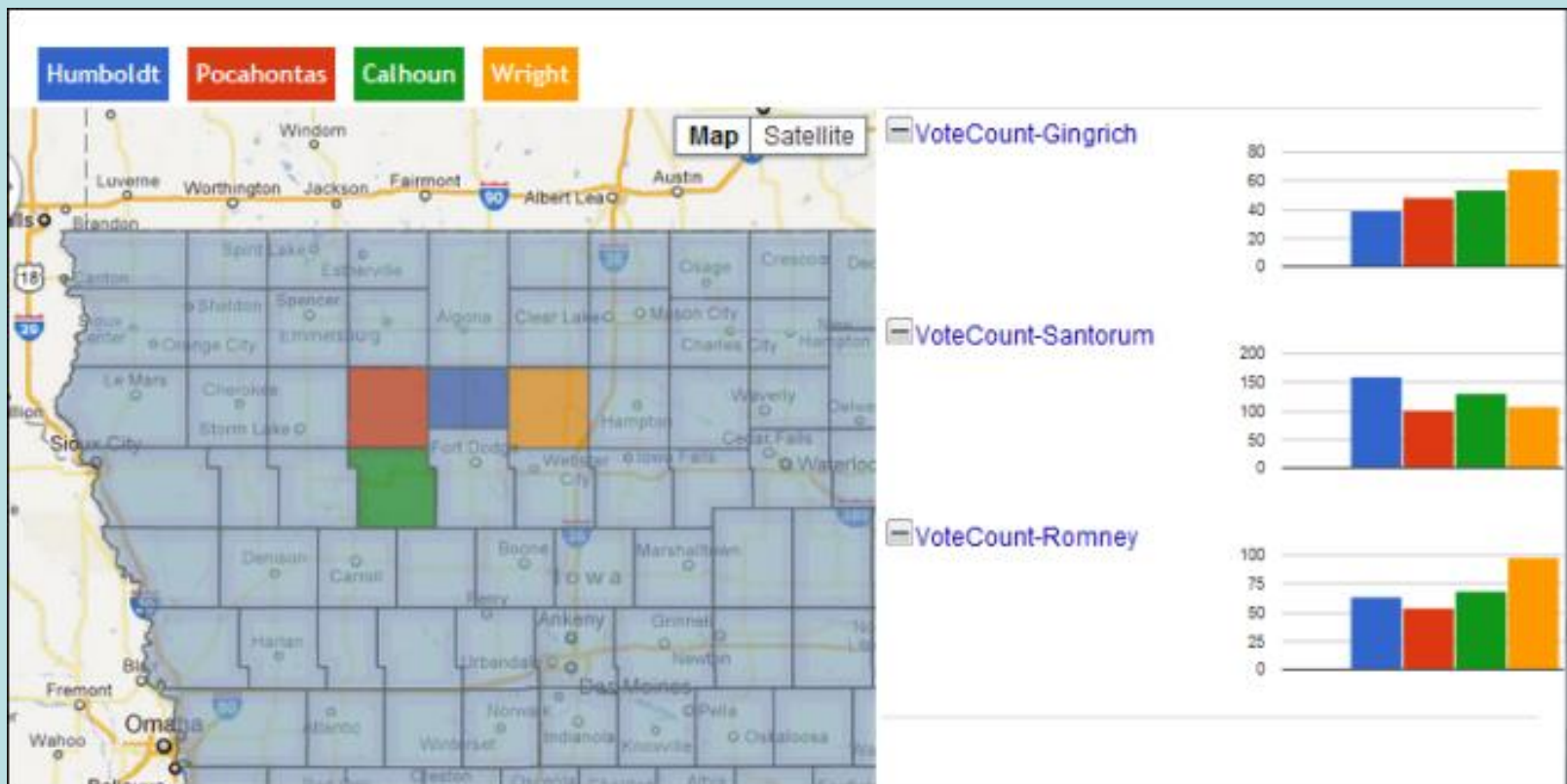
Pie chart

Network chart

GOOGLE FUSION TABLES

Types of charts:

Bar charts connected to maps (not on the map, just interactively annexed to the map):

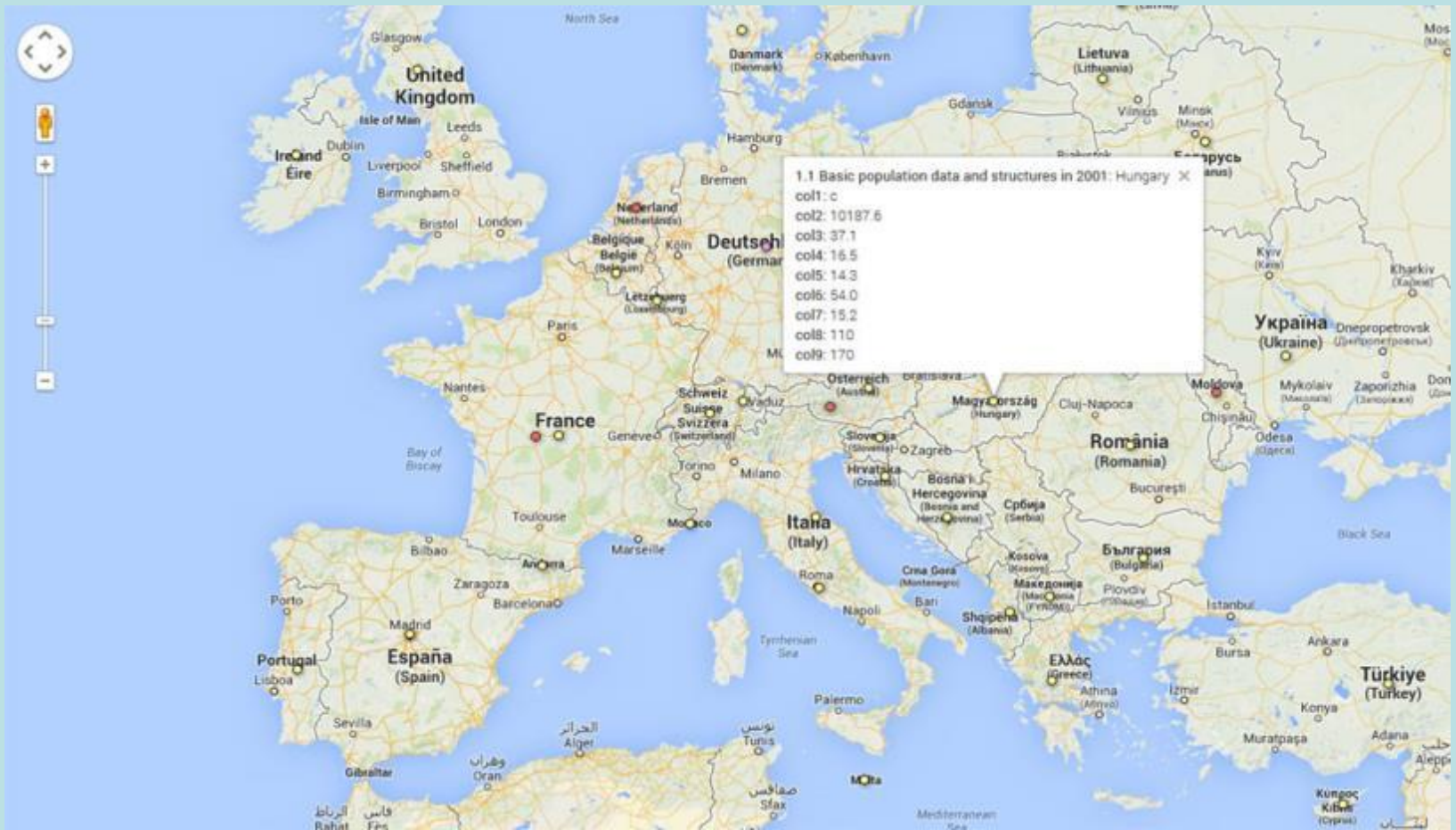


GOOGLE FUSION TABLES

Data representation on maps:

1) If only a data table is imported:

- By default: data visualization as points in Google Maps – the filling of points can be changed according to categories (intervals) determined by the user.

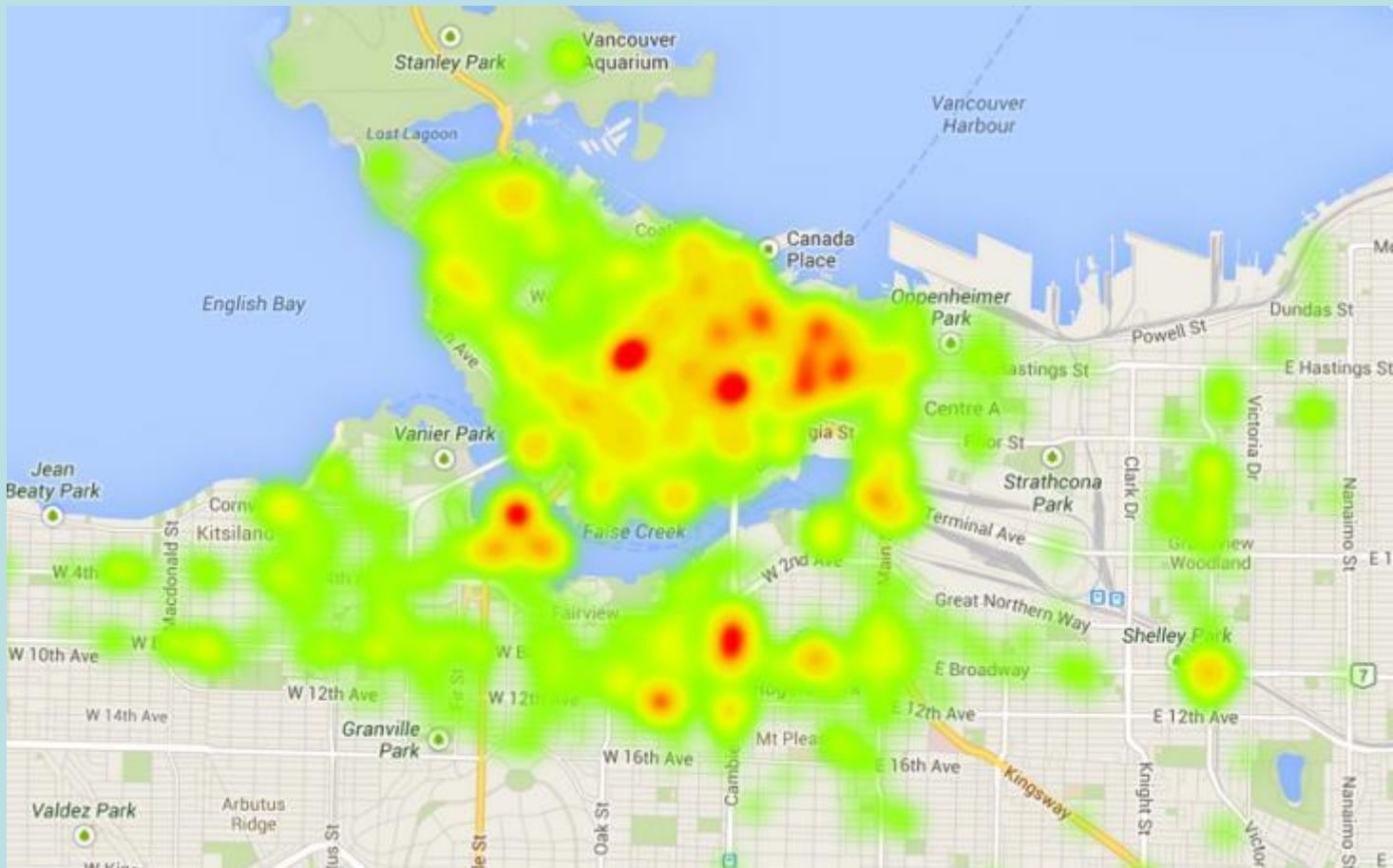


GOOGLE FUSION TABLES

Data representation on maps:

2) If data table + points are used:

- Heat map – Bike theft and auto crime in Vancouver:



GOOGLE FUSION TABLES

Converting shape files: shpescape.com

Converted files are directly copied to our own Google profile...

The logo for shp2fusion tables, featuring the word 'shp' in grey, a large yellow '2', and the words 'fusion tables' in grey below it.

shp2fusion
tables

The logo for shp2geoJSON topoJSON, featuring the word 'shp' in grey, a large yellow '2', and the words 'geoJSON topoJSON' in grey below it.

shp2geoJSON
topoJSON

GOOGLE FUSION TABLES

The screenshot shows the Mapsdata website with a navigation bar at the top containing links for 'Showcase', 'About', 'Converter', 'Blog', and a 'Sign In' button. The main heading is 'Online Converters'. Below this, a paragraph states that free online converters are available for batch geocoding ZIP codes and UK postcodes, and that the technologies were developed for their own products and shared freely. A section titled 'Converter limits' notes that the Batch Converter is limited to 50,000 rows and the KML converter to approximately 32Mb. Two main conversion tools are highlighted: 'Batch Geocoder & Converter' and 'KML Converter'. The 'Batch Geocoder & Converter' section includes a circular icon with a double arrow, the title 'Geocode and Convert Spatial Data', a description of converting to lat-lon by dragging and dropping a file, a link to 'Instructions', and a detailed paragraph about converting US ZIP codes, British postal codes, and various coordinate systems (UTM, MGRS, BNG) into decimal latitude and longitude. It also mentions that the system recognizes 120,000 cities, 240 countries & territories, and the US states, including capital coordinates. A dashed box contains the text 'Drop excel/csv file or Click to browse'. The 'KML Converter' section features a similar circular icon, the title 'Convert your files to KML', a description of converting Excel, CSV, SHP, GPX, KMZ, and DXF files to KML by dragging and dropping, a link to 'Instructions', a paragraph about quick KML conversion and free file conversion from Excel, CSV, SHP, KML, GPX, KMZ, and DXF, and a dashed box with the text 'Drop file or Click to browse'. At the bottom, there are three green buttons: 'Follow us on Twitter', 'Our YouTube Videos', and 'Try Mapsdata'.

mapsdata

Showcase About Converter Blog Sign In

Online Converters

Our free online converters let you batch geocode ZIP codes and UK postcodes, and we also offer a range of individual converters. We developed the technologies behind these converters for our own products and **decided to share them** for others to use freely.

Converter limits

The Batch Converter is limited to 50,000 rows, and the KML converter approximately 32Mb.

Batch Geocoder & Converter

Geocode and Convert Spatial Data

Convert to lat-lon by dragging and dropping your file. [Instructions](#).

Convert US ZIP codes, British postal codes, as well as degrees minutes and seconds, UTM, MGRS and BNG into decimal latitude & longitude. The system also recognizes 120,000 cities, 240 countries & territories, and the US states, in which case the capital's coordinates are given.

Drop excel/csv file or Click to browse

KML Converter

Convert your files to KML

Convert Excel to KML, CSV to KML, SHP to KML, GPX to KML, KMZ to KML or DXF to KML by dragging and dropping your file. [Instructions](#).

Drag and drop your file for quick KML conversion.

Our converter provides free file conversion from Excel to KML, CSV to KML, SHP to KML, GPX to KML, KMZ to KML and DXF to KML.

Drop file or Click to browse

Follow us on Twitter Our YouTube Videos Try Mapsdata

Converting Shape files to KML files:

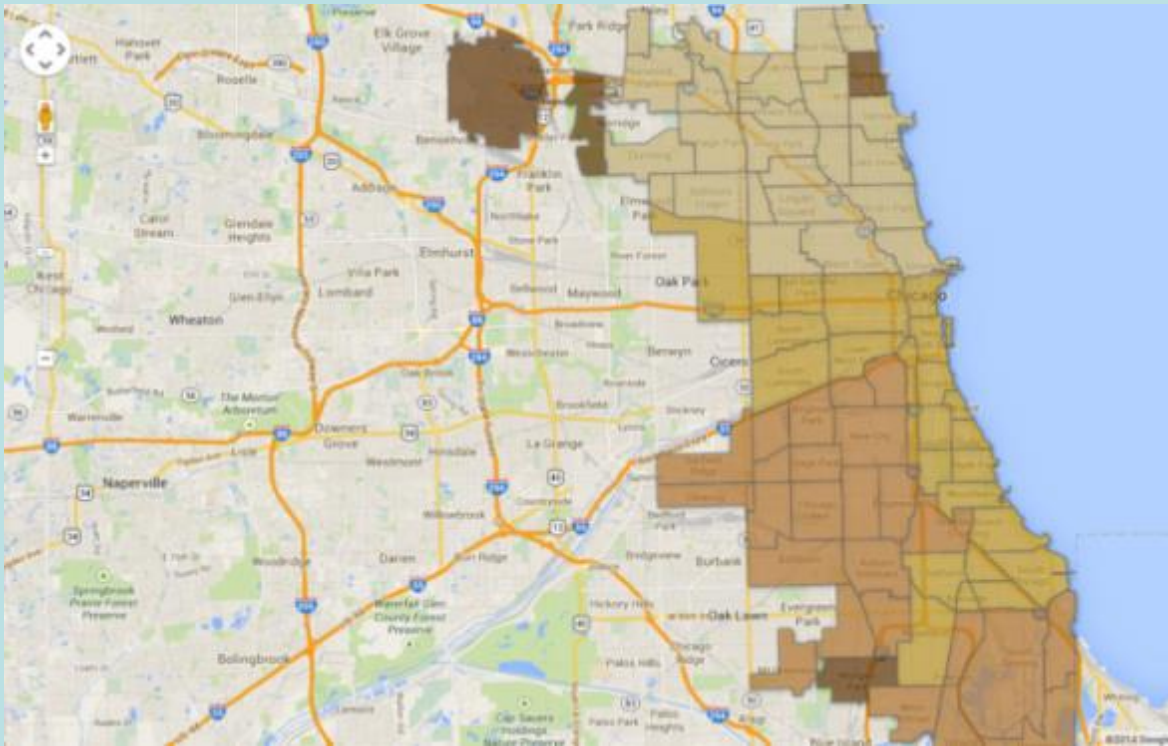
<http://www.mapsdata.co.uk/online-file-converter/#kml-instructions>

GOOGLE FUSION TABLES

Data representation on maps:

2) If data table + polygon map are used:

- Choropleth map (intensity map in Google) that can be filled using two methods:
 - Buckets: The colors can be determined freely for each category (interval)

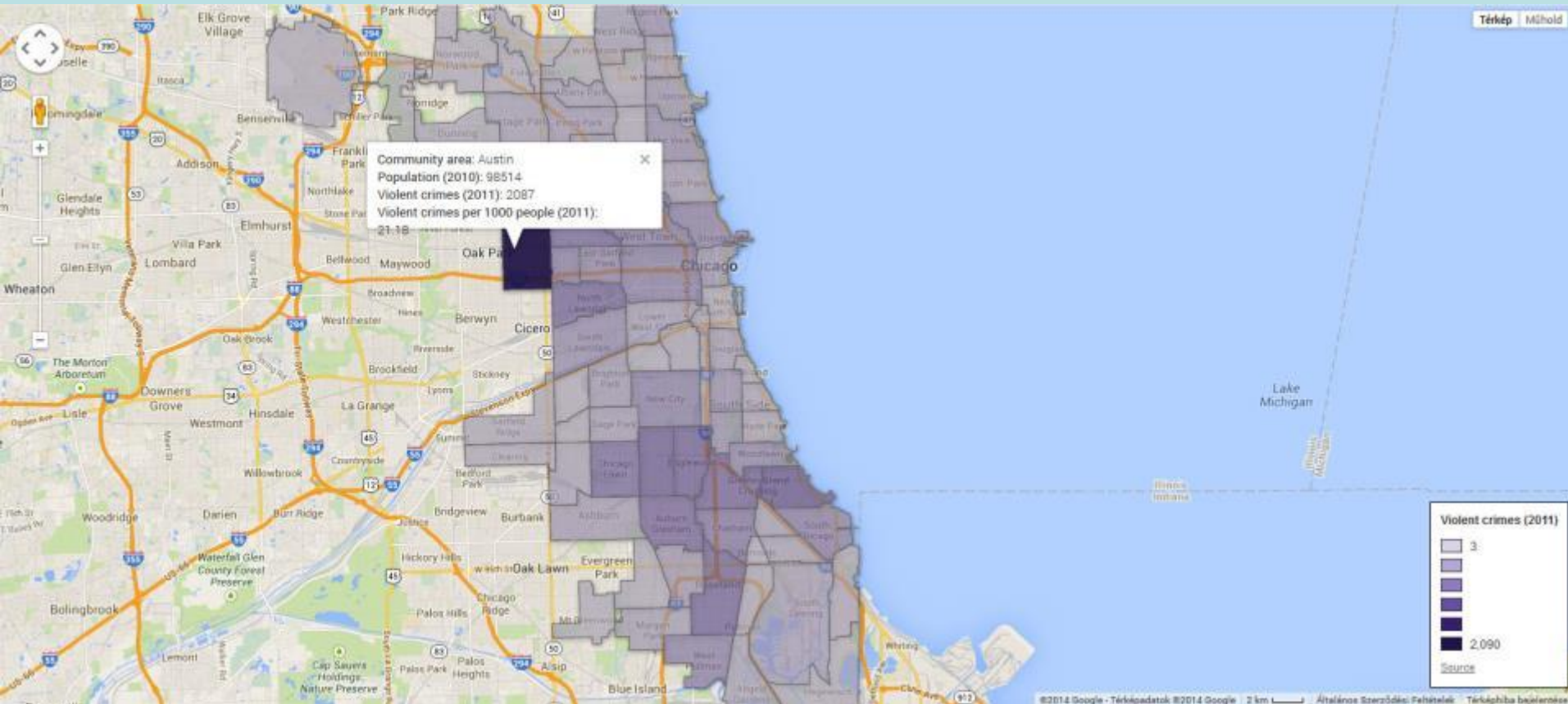


GOOGLE FUSION TABLES

Data representation on maps:

2) If data table + polygon map are used:

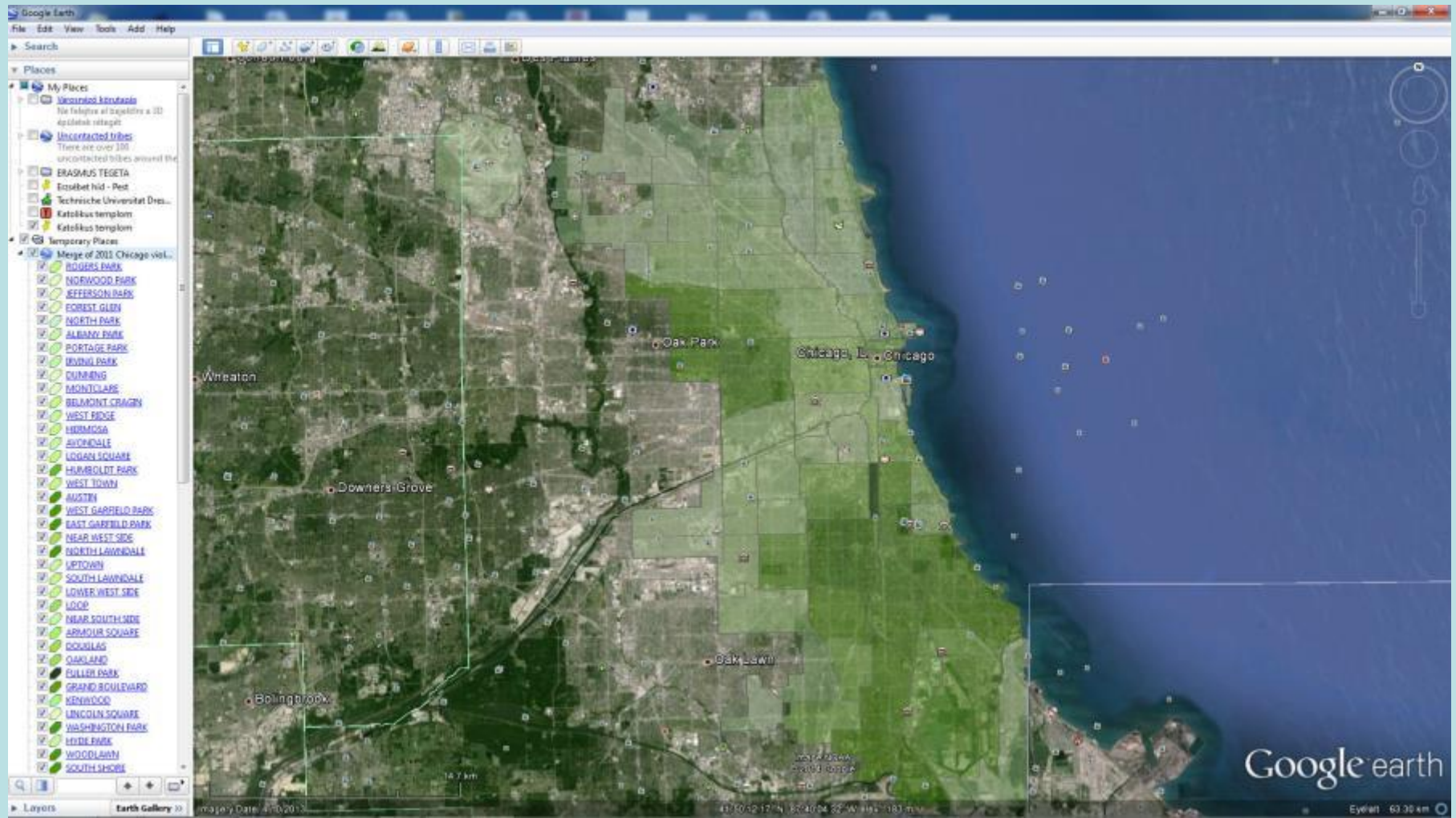
- Gradient: Fills are determined by categories and placed to a continuous color scale (scheme)



GOOGLE FUSION TABLES

Exporting the results:

Any map can be exported to KML format to be visualized in Google Earth (File – Download) or as HTML to visualize it on your website

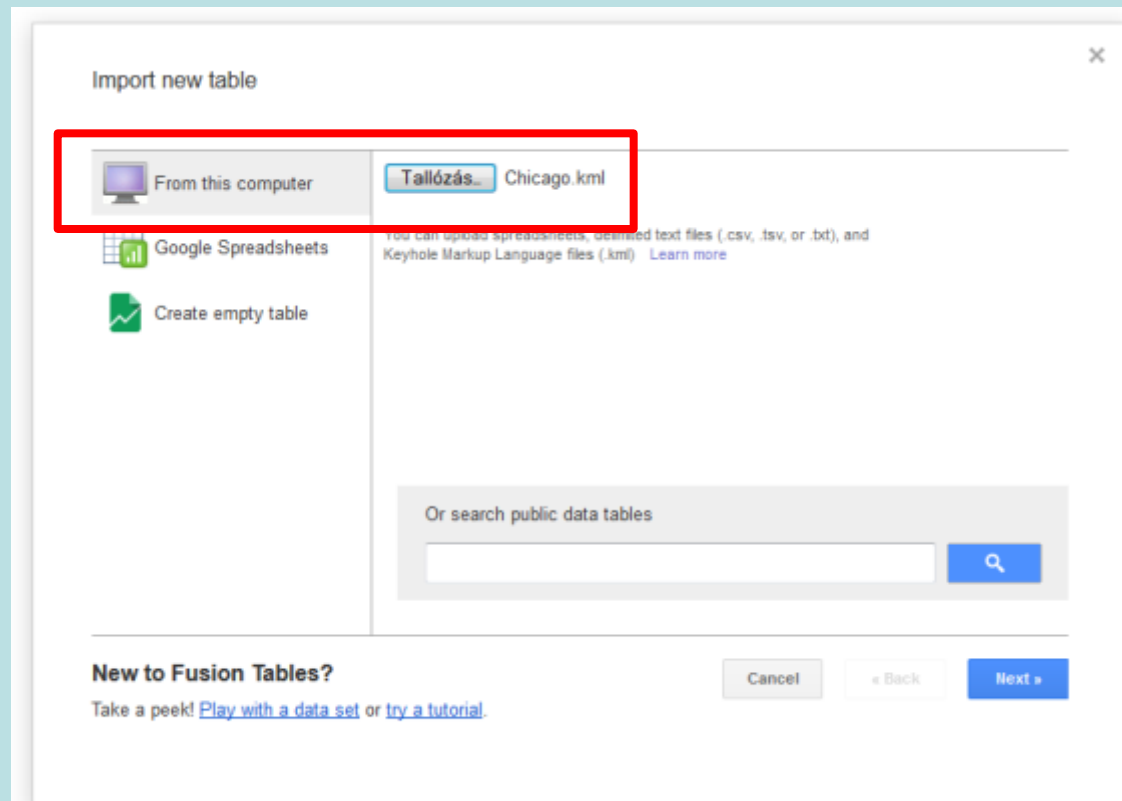
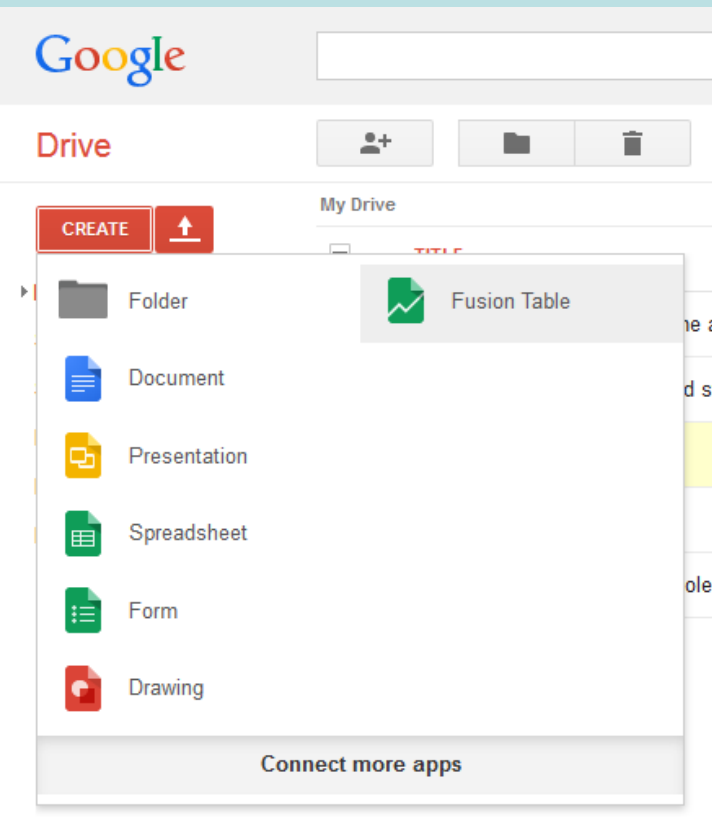


GOOGLE FUSION TABLES

Making a map... step by step ☺

How to import a map to Fusion Tables?

- Import: text files (e.g. csv), Excel tables (xls,xlsx) and Google Earth files (kml).
- Max. size of a file: 100 Mb



GOOGLE FUSION TABLES

Making a map... step by step ☺

Giving in which row are placed the column names...

Import new table

Column names are in row

1

1	descr...	name	COM...	COM...	AREA...	COM...	AREA...	AREA
2		ALBA... PARK	0	0	14	ALBA... PARK	14	0.000...
3		ARCH... HEIG...	0	0	57	ARCH... HEIG...	57	0.000...
4		ARM... SQUA...	0	0	34	ARM... SQUA...	34	0.000...
5		ASHB...	0	0	70	ASHB...	70	0.000...

Rows before the header row will be ignored.

New to Fusion Tables?

Take a peek! [Play with a data set](#) or [try a tutorial](#).

Cancel

« Back

Next »

GOOGLE FUSION TABLES

Making a map... step by step ☺

Typing some general data...

×

Import new table

Table name

Chicago

Allow export

☒ ?

Attribute data to

?

Attribution page link

Description

Imported at Tue Aug 19 01:01:30 PDT 2014 from Chicago.kml.

For example, what would you like to remember about this table in a year?

New to Fusion Tables?

Take a peek! [Play with a data set](#) or [try a tutorial](#).

Cancel

« Back

Finish

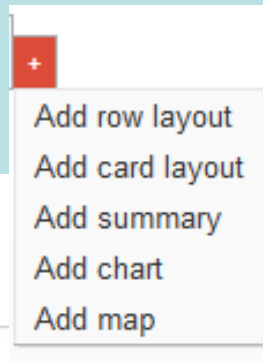
GOOGLE FUSION TABLES

Making a map... step by step ☺

After importing a KML file we can visualize the data as a:

- Table (*Rows*)
- Business card (*Cards*)
- Map (*Map of geometry*)

If we do not have thematic data in our table (only geometric data), we should import or join them...



Chicago

Imported at Tue Aug 19 02:20:34 PDT 2014 from Chicago.kml
Edited at 11:21 AM

File Edit Tools Help

Rows 1

Cards 1

Map of geometry

Filter No filters applied. Sorted by AREA_NUMBE

1-77 of 77

description	name	COMAREA_	COMAREA_ID	AREA_NUMBE	COMMUNITY	AREA_NUM_1	AREA	PERIMETER	SHAPE_AREA	SHAPE_LEN	geometry
	ROGERS PARK	0	0	1	ROGERS PARK	1	0.00000000	0.00000000	5.12599024506e+007	3.40523975757e+004	KML...
	WEST RIDGE	0	0	2	WEST RIDGE	2	0.00000000	0.00000000	9.84290948621e+007	4.30206894583e+004	KML...
	UPTOWN	0	0	3	UPTOWN	3	0.00000000	0.00000000	6.50956427289e+007	4.69727945549e+004	KML...
	LINCOLN SQUARE	0	0	4	LINCOLN SQUARE	4	0.00000000	0.00000000	7.13523282399e+007	3.66246030848e+004	KML...
	NORTH CENTER	0	0	5	NORTH CENTER	5	0.00000000	0.00000000	5.70541678500e+007	3.13916697542e+004	KML...
	LAKE VIEW	0	0	6	LAKE VIEW	6	0.00000000	0.00000000	8.72147992728e+007	5.19730968677e+004	KML...
	LINCOLN PARK	0	0	7	LINCOLN PARK	7	0.00000000	0.00000000	8.83164004728e+007	4.94784277714e+004	KML...
	NEAR NORTH SIDE	0	0	8	NEAR NORTH SIDE	8	0.00000000	0.00000000	7.66758959728e+007	5.72931649516e+004	KML...
	EDISON PARK	0	0	9	EDISON PARK	9	0.00000000	0.00000000	3.16363137864e+007	2.59372268410e+004	KML...
	NORWOOD PARK	0	0	10	NORWOOD PARK	10	0.00000000	0.00000000	1.21959105470e+008	8.03683743778e+004	KML...
	JEFFERSON PARK	0	0	11	JEFFERSON PARK	11	0.00000000	0.00000000	6.48681616818e+007	4.40119571704e+004	KML...
	FOREST GLEN	0	0	12	FOREST GLEN	12	0.00000000	0.00000000	8.91308936364e+007	7.44938216040e+004	KML...
	NORTH PARK	0	0	13	NORTH PARK	13	0.00000000	0.00000000	7.02887064343e+007	4.15819486539e+004	KML...
	ALBANY PARK	0	0	14	ALBANY PARK	14	0.00000000	0.00000000	5.35422308191e+007	3.93390164387e+004	KML...
	PORTAGE PARK	0	0	15	PORTAGE PARK	15	0.00000000	0.00000000	1.10196097139e+008	4.65206421377e+004	KML...
	IRVING PARK	0	0	16	IRVING PARK	16	0.00000000	0.00000000	8.96113823106e+007	4.90832240938e+004	KML...
	DUNNING	0	0	17	DUNNING	17	0.00000000	0.00000000	1.03595001175e+008	5.45559925337e+004	KML...
	MONTCLARE	0	0	18	MONTCLARE	18	0.00000000	0.00000000	2.75763936325e+007	2.24048521448e+004	KML...
	BELMONT CRAGIN	0	0	19	BELMONT CRAGIN	19	0.00000000	0.00000000	1.09099414689e+008	4.33117073790e+004	KML...
	HERMOSA	0	0	20	HERMOSA	20	0.00000000	0.00000000	3.26020594055e+007	2.71790174378e+004	KML...

Reyes Nunez Jesús

Share

Saved

GOOGLE FUSION TABLES

Making a map... step by step ☺

Visualization of a SHP or KML file on Google Maps (without thematic data)

Chicago

Imported at Tue Aug 19 02:20:34 PDT 2014 from Chicago.kml
Edited at 11:21 AM

File Edit Tools Help Rows 1 Cards 1 Map of geometry

Filter No filters applied Saved 77 rows

Configure map Done

Location geometry

* Feature map

Change feature styles...

Change info window...

* Heatmap

Chicago

Imported at Tue Aug 19 02:20:34 PDT 2014 from Chicago.kml
Edited at 11:21 AM

File Edit Tools Help Rows 1 Cards 1 Map of geometry

Filter No filters applied Cards 1

1-77 of 77

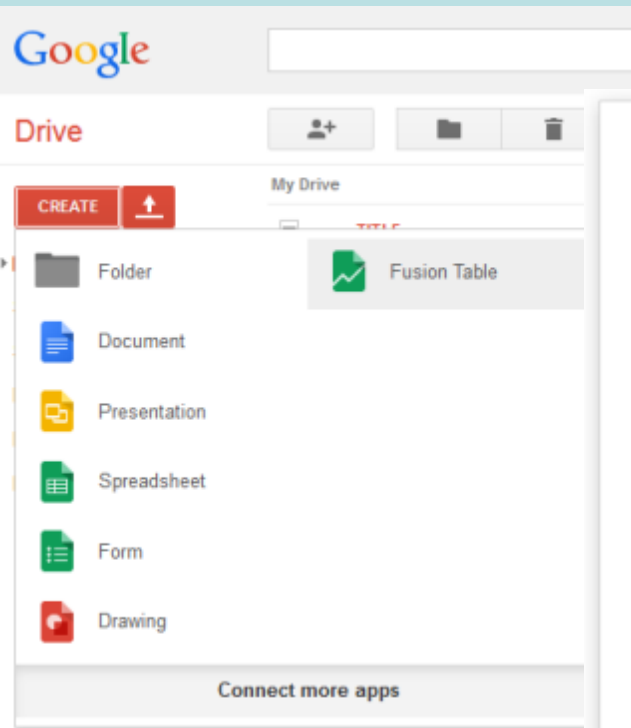
description:
name: ALBANY PARK
COMAREA : 0
COMAREA_ID: 0
AREA_NUMBE: 14
COMMUNITY: ALBANY PARK
AREA_NUM_1: 14
AREA: 0.00000000
PERIMETER: 0.00000000
SHAPE_AREA: 5.35422308191e+007
SHAPE_LEN: 3.93390164387e+004

Geometry data on a card

GOOGLE FUSION TABLES

Making a map... step by step ☺

Importing thematic data using an Excel table...



Google Drive interface showing the 'Import new table' dialog box. The 'From this computer' option is selected, and a file named 'Chicago-populacao e crimes violentos 2011.xlsx' is highlighted. The dialog box also shows options for 'Google Spreadsheets' and 'Create empty table'.

Import new table

From this computer **Tallózás...** Chicago-populacao e crimes violentos 2011.xlsx

Google Spreadsheets

Create empty table

New to Fusion Tables?
Take a peek! [Play with a data set](#) or [try a tutorial](#).

Import new table

Column names are in row 1

1	ID	Área	Popul... (2010)	Crimes viole... (2011)	Crimes viole... por 1000 pessoas (2011)
2	1	Rogers Park	54991	453	8.24
3	2	West Ridge	71942	262	3.64
4	3	Uptown	56362	341	6.05
5	4	Lincoln Square	39493	93	2.35
6	5	North Center	31867	67	2.10
7	6	Lake View	94368	457	4.84
8	7	Lincoln Park	64116	229	3.57

Rows before the header row will be ignored.

New to Fusion Tables?
Take a peek! [Play with a data set](#) or [try a tutorial](#).

Cancel Back Next

GOOGLE FUSION TABLES

Making a map... step by step ☺

Reyes Nunez Jesús ▾

Chicago-populacao e crimes violentos 2011

Imported at Tue Aug 19 01:39:40 PDT 2014 from Chicago-populacao e crimes violentos 2011.xlsx.
Edited at 10:41 AM

File Edit Tools Help Rows 1 Cards 1 Map of Área +

Filter No filters applied Saved

1-77 of 77

ID	Área	Populaçã...	Crim...	Crim...
1	Rogers Park	54991	453	8.24
2	West Ridge	71942	262	3.64
3	Uptown	56362	341	6.05
4	Lincoln Square	39493	93	2.35
5	North Center	31867	67	2.10
6	Lake View	94368	457	4.84
7	Lincoln Park	64116	229	3.57
8	Near North Side	80484	596	7.41
9	Edison Park	11187	3	0.27
10	Norwood Park	37023	37	1.00
11	Jefferson Park	25448	41	1.61
12	Forest Glen	18508	15	0.81
13	North Park	17931	55	3.07
14	Albany Park	51542	230	4.46
15	Portage Park	64124	245	3.82
16	Iving Park	53359	292	5.47
17	Dunning	41932	95	2.27
18	Montclare	31485	27	0.86
19	Belmont Cragin	78684	554	7.04
20	Hermosa	25010	179	7.16

The native format (display) of our data can be changed:

File Edit Tools Help

Rows 1

Cards 1

Filter

ID

1

2

3

4

6

7

Add row

Edit row

Duplicate row

Delete selected row

Delete all rows

Add column

Add formula column

Change columns

Lake View

Lincoln Park

Populaçã...

Crim...

Crim...

54991

71942

56362

39493

31867

94368

64116

453

262

341

93

67

457

229

8.24

3.64

6.05

2.35

2.10

4.84

3.57

GOOGLE FUSION TABLES

Making a map... step by step ☺

E.g.: Population is changed to Integer...

Change columns

ID	Number
Área	Location
População (2010)	↑ ↓ ×
Crimes violentos (2011)	Number
Crimes violentos por 1000 pessoas (2011)	Number

Name

População (2010)

Description

Type

Number

Format

1235

Data entry [Learn more](#)

☐ Validate data

List of drop-down items

Save

Cancel








GOOGLE FUSION TABLES

Making a map... step by step ☺

Next step: Connecting thematic data to geometric data – *File, Merge*

Merge: Select a table

Tables

	NAME	LAST MODIFIED
<input checked="" type="checkbox"/>	 Chicago	3:44 PM
<input type="checkbox"/>	 Chicago-populacao e crimes violentos 2011	3:41 PM
<input type="checkbox"/>	 Dados dos estados do Brasil	Aug 18
<input type="checkbox"/>	 uf_5000.kml	Aug 18
<input type="checkbox"/>	 uf_5000.shp	Aug 12
<input type="checkbox"/>	 Merge of 2011 Chicago violent crime and population and commareas.shp	Apr 2
<input type="checkbox"/>	 2011 Chicago violent crime and population	Apr 2

Or paste a web address here:

Next

Cancel

GOOGLE FUSION TABLES

Making a map... step by step ☺

Next step: Connecting thematic data to geometric data – *File, Merge*

Merge: Confirm source of match

This table

ID ▾

1
2
3
4
5
6
7
8
9
10

Chicago

AREA_NUMBE ▾

14
57
34
70
71
25
45
21
19
72

Matching values in these two columns will create the merged table. [Learn more](#)

Cancel

Previous

Next

Merge: Choose columns

All ▾



16 columns

Select [all](#) [none](#)

- ☒ ID
- ☒ Área
- ☒ População (2010)
- ☒ Crimes violentos (2011)
- ☒ Crimes violentos por 1000 pessoas (2011)
- ☒ description
- ☒ name
- ☒ COMAREA_
- ☒ COMAREA_ID
- ☐ COMMUNITY

Cancel

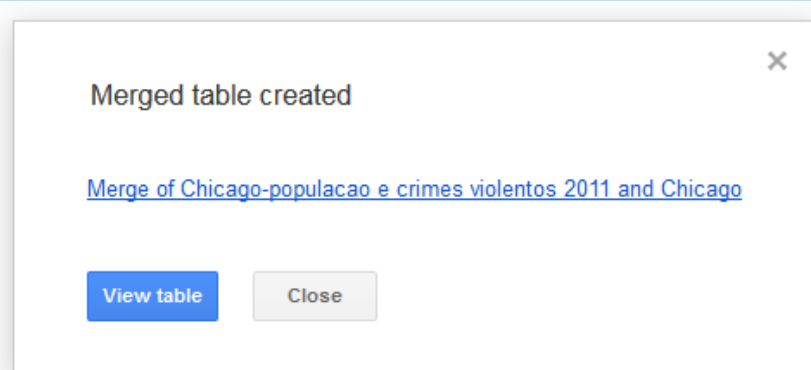
Previous

Merge

GOOGLE FUSION TABLES

Making a map... step by step 😊

Next step: Connecting thematic data to geometric data – *File, Merge*



A new table is created

Merge of Chicago-populacao e crimes violentos 2011 and Chicago

Reyes Nunez Jesús ▾

Share

Edited at 3:59 PM

File Edit Tools Help

Rows 1 ▾

Cards 1

Map of geometry



Filter ▾ No filters applied

Saved

1-77 of 77

ID	Área	Populaç...	Crim...	Crim...	COMMUNITY	AREA	PERIMETER	SHAPE_AREA	SHAPE_LEN	geometry
1	Rogers Park	54991	453	8.24	ROGERS PARK	0.00000000	0.00000000	5.12599024506e+007	3.40523975757e+004	KML...
10	Norwood Park	37023	37	1	NORWOOD PARK	0.00000000	0.00000000	1.21959105470e+008	8.03683743778e+004	KML...
11	Jefferson Park	25448	41	1.61	JEFFERSON PARK	0.00000000	0.00000000	6.48681616818e+007	4.40119571704e+004	KML...
12	Forest Glen	18508	15	0.81	FOREST GLEN	0.00000000	0.00000000	8.91308936364e+007	7.44938216040e+004	KML...
13	North Park	17931	55	3.07	NORTH PARK	0.00000000	0.00000000	7.02887064343e+007	4.15819486539e+004	KML...
14	Albany Park	51542	230	4.46	ALBANY PARK	0.00000000	0.00000000	5.35422308191e+007	3.93390164387e+004	KML...
15	Portage Park	64124	245	3.82	PORTAGE PARK	0.00000000	0.00000000	1.10196097139e+008	4.65206421377e+004	KML...
16	Irving Park	53359	292	5.47	IRVING PARK	0.00000000	0.00000000	8.96113823106e+007	4.90832240938e+004	KML...
17	Dunning	41932	95	2.27	DUNNING	0.00000000	0.00000000	1.03595001175e+008	5.45559925337e+004	KML...

GOOGLE FUSION TABLES

Making a map... step by step ☺

If we wish to display only some columns – *Tools, Select columns*

Merge of Chicago-populacao e crimes violentos 2011 and Chicago

Edited at 3:59 PM

File Edit Tools Help

Rows 1

Cards 1

Map of geometry

Filter

Publish...

Summarize...

Select columns...

ID	Área	Populaç...	Crim...	Crim...	COMMUNITY	AREA	PERIMETER	SHAPE_AREA	SHAPE_LEN	geometry
61	New City	44311	652	14.71	NEW CITY	0.00000000	0.00000000	1.3463663254e+008	4.81335959616e+004	KML...
62	West Elsdon	18139	103	5.68	WEST ELSDON	0.00000000	0.00000000	3.27110914259e+007	2.62296956007e+004	KML...
63	Gage Park	39894	263	6.59	GAGE PARK	0.00000000	0.00000000	6.12848961132e+007	3.22941959107e+004	KML...
64	Clearing									KML...
65	West Lawn									KML...
66	Chicago Lawn									KML...

Merge of Chicago-populacao e crimes violentos 2011 and Chicago

Edited at 3:59 PM

File Edit Tools Help

Rows 1

Cards 1

Map of geometry

Filter

No filters applied

1-77 of 77

ID	Área	Populaç...	Crim...	Crim...	COMMUNITY	geometry
1	Rogers Park	54991	453	8.24	ROGERS PARK	KML...
10	Norwood Park	37023	37	1	NORWOOD PARK	KML...
11	Jefferson Park	25448	41	1.61	JEFFERSON PARK	KML...
12	Forest Glen	18508	15	0.81	FOREST GLEN	KML...
13	North Park	17931	55	3.07	NORTH PARK	KML...
14	Albany Park	51542	230	4.46	ALBANY PARK	KML...
15	Portage Park	64124	245	3.82	PORTAGE PARK	KML...

GOOGLE FUSION TABLES

Making a map... step by step ☺

Giving which data will be displayed on a card– *Tools, Select columns*

Merge of Chicago-populacao e crimes violentos 2011 and Chicago

Edited at 4:42 PM

File Edit Tools Help Rows 1 Cards 1 Map of geometry

Filter No filters applied

1-77 of 77

ID: 1
Área: Rogers Park
População (2010): 54991
Crimes violentos (2011): 453
Crimes violentos por 1000 pessoas (2011): 8.24
COMMUNITY: ROGERS PARK
AREA: 0.00000000
PERIMETER: 0.00000000
SHAPE_AREA: 5.12599024506e+007
SHAPE_LEN: 3.40523975757e+004

ID: 10
Área: Norwood Park
População (2010): 37023
Crimes violentos (2011): 37
Crimes violentos por 1000 pess
COMMUNITY: NORWOOD PARK
AREA: 0.00000000
PERIMETER: 0.00000000
SHAPE_AREA: 1.21959105470e+0
SHAPE_LEN: 8.03683743778e+0

Change card layout

Automatic Custom

Select the columns to include in your card view.

- ☒ ID
- ☒ Área
- ☒ População (2010)
- ☒ Crimes violentos (2011)
- ☒ Crimes violentos por 1000 pessoas (2011)
- ☐ COMMUNITY
- ☐ AREA
- ☐ PERIMETER
- ☐ SHAPE_AREA
- ☐ SHAPE_LEN
- ☐ geometry

```
<div class='googft-card-view' style='font-family: sans-serif; width: 450px; padding: 4px; border: 1px solid #ccc; overflow: hidden'>  
<b>ID:</b> {ID}<br>  
<b>Área:</b> {Área}<br>  
<b>População (2010):</b> {População (2010)}<br>  
<b>Crimes violentos (2011):</b> {Crimes violentos (2011)}<br>  
<b>Crimes violentos por 1000 pessoas (2011):</b> {Crimes violentos por 1000 pessoas (2011)}</div>
```

ID: 1
Área: Rogers Park
População (2010): 54991
Crimes violentos (2011): 453
Crimes violentos por 1000 pessoas (2011): 8.24

Cards across 2 Down 100 Sort by Select column Sort A to Z

GOOGLE FUSION TABLES

Making a map... step by step ☺

Visualizing our map – *Map of geometry*

If we want to change the info window – disadvantage: it should be changed in each map created by us

Merge of Chicago-populacao e crimes violentos 2011 and Chicago

Edited at 3:55 PM

File Edit Tools Help Rows 1 Cards 1 Map of geometry

Filter No filters applied

Configure map

Location geometry

Feature map

Change feature styles...

Change info window...

Heatmap

Change info window layout

Automatic Custom

Select the columns to include in your map's info window

- ☒ ID
- ☒ Área
- ☒ População (2010)
- ☒ Crimes violentos (2011)
- ☒ Crimes violentos por 1000 pessoas (2011)
- ☐ COMMUNITY
- ☐ AREA
- ☐ PERIMETER
- ☐ SHAPE_AREA
- ☐ SHAPE_LEN
- ☐ geometry

```
<div class="google-info-window">
  <b>ID:</b> {ID}<br>
  <b>Área:</b> {Área}<br>
  <b>População (2010):</b> {População (2010)}<br>
  <b>Crimes violentos (2011):</b> {Crimes violentos (2011)}<br>
  <b>Crimes violentos por 1000 pessoas (2011):</b> {Crimes violentos por 1000 pessoas (2011)}
</div>
```

ID: 25
Área: Austin
População (2010): 98514
Crimes violentos (2011): 2087
Crimes violentos por 1000 pessoas (2011): 21.18
COMMUNITY: AUSTIN
AREA: 0.00000000
PERIMETER: 0.00000000
SHAPE_AREA: 1.99254203427e+008
SHAPE_LEN: 7.52264749167e+004

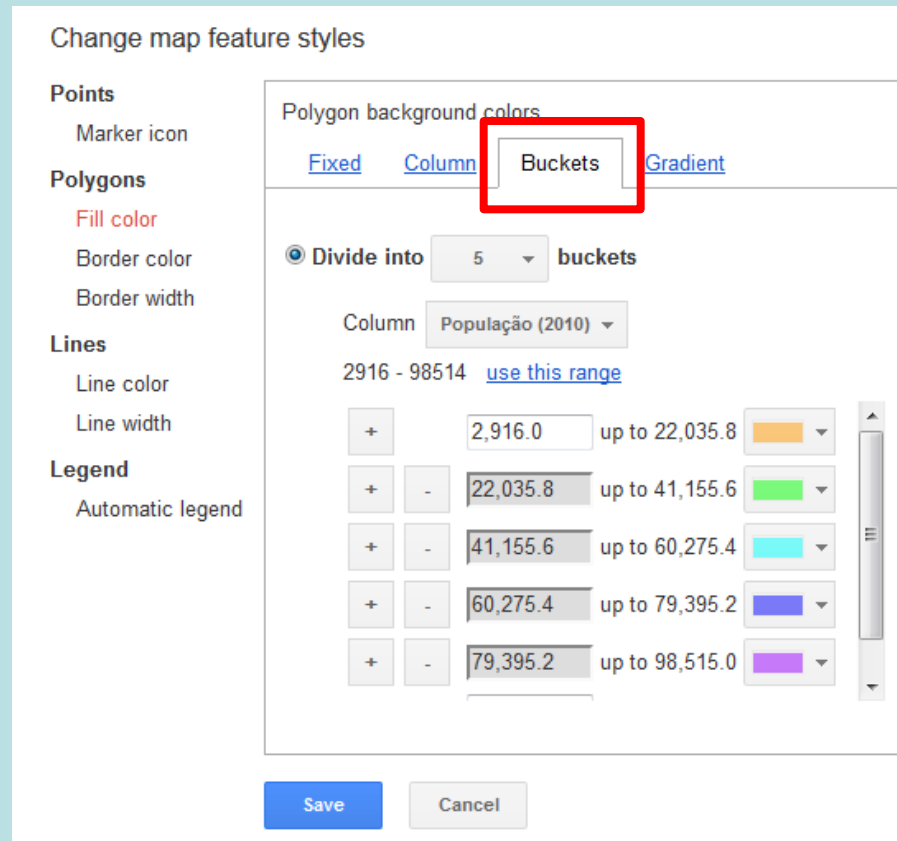
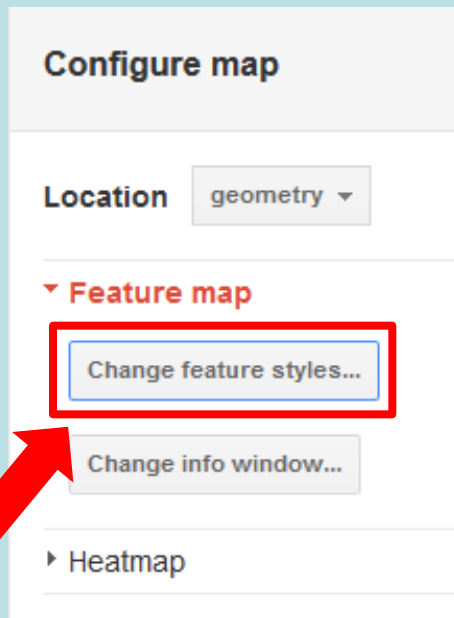
ID: 25
Área: Austin
População (2010): 98514
Crimes violentos (2011): 2087
Crimes violentos por 1000 pessoas (2011): 21.18

GOOGLE FUSION TABLES

Making a map... step by step ☺

Making thematic maps – Choropleth maps

- Buckets: Choose any color for each category
- Gradient: Use different tones of a color to represent the different categories



GOOGLE FUSION TABLES

Making a map... step by step ☺

Making thematic maps – Choropleth maps

- Buckets: Choose any color for each category

Change map feature styles

Points

Marker icon

Polygons

Fill color

Border color

Border width

Lines

Line color

Line width

Legend

Automatic legend

☐ Show marker legend

A bucket style is required

☒ Show polygon fill legend

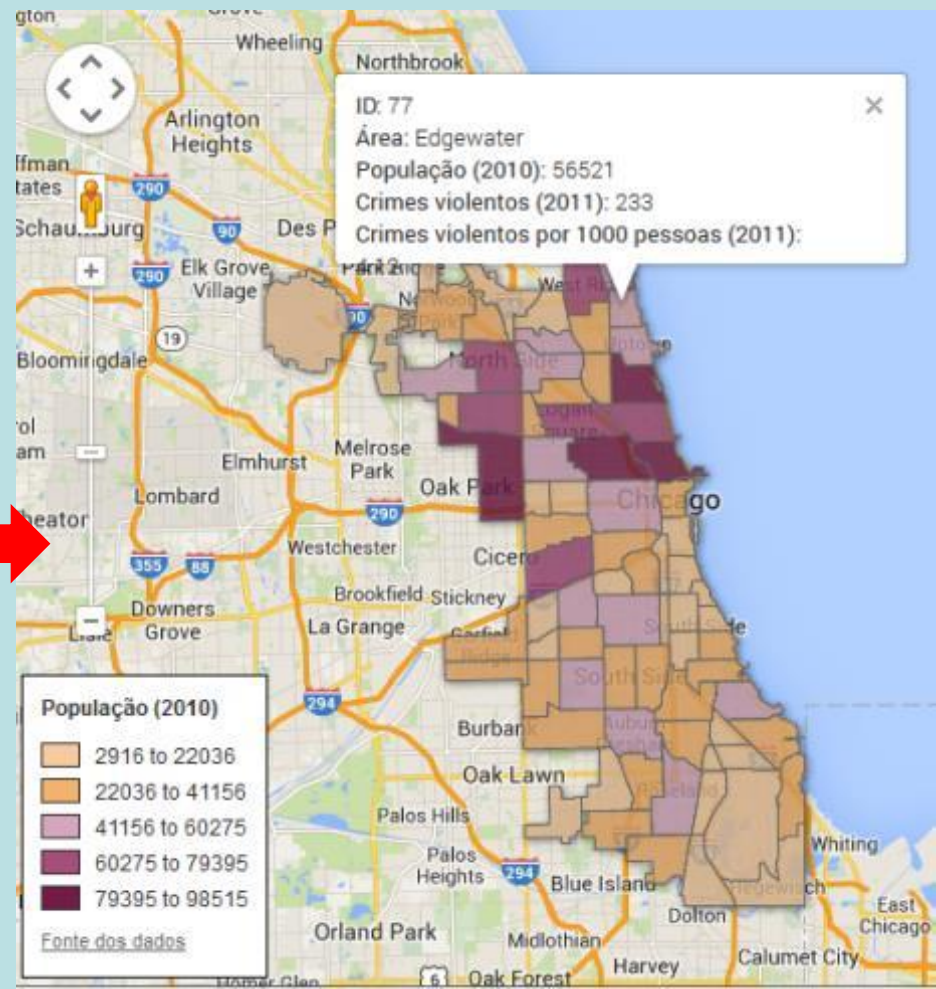
Title

Legend position

☒ Include a link to this table

Link text

[Save](#) [Cancel](#)

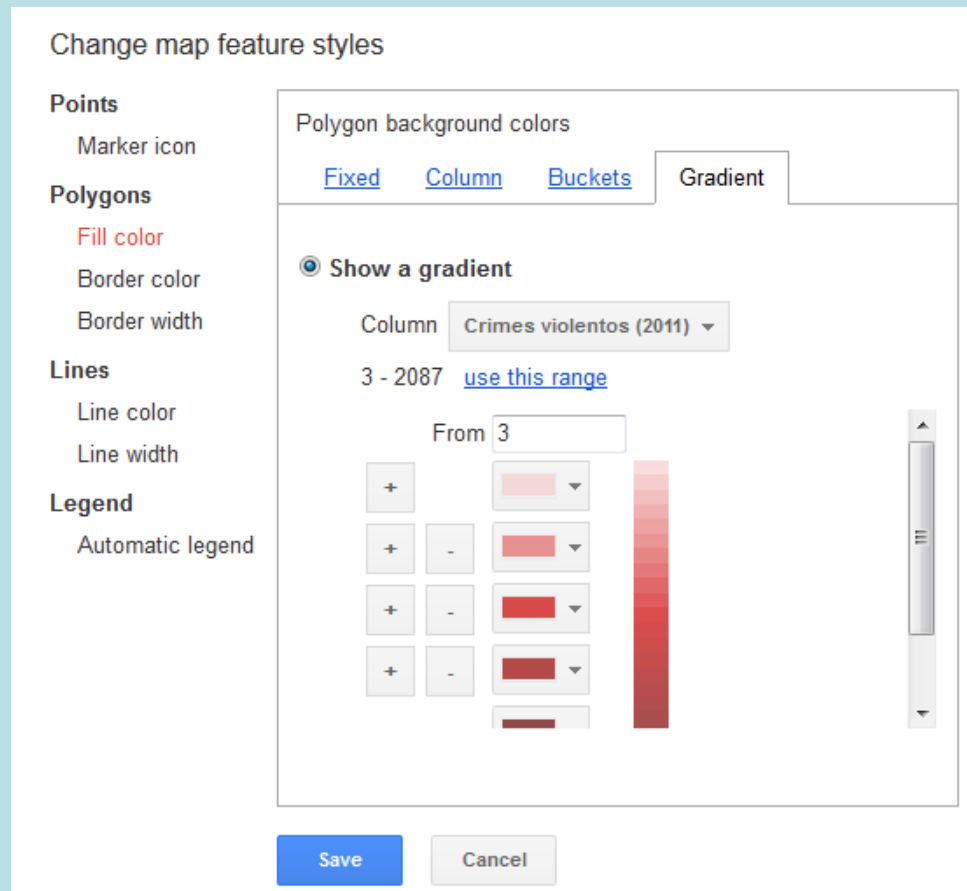
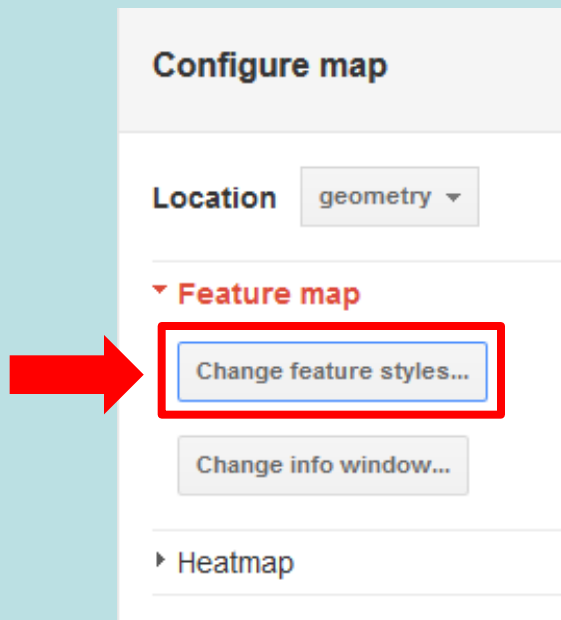


GOOGLE FUSION TABLES

Making a map... step by step ☺

Making thematic maps – Choropleth maps

- Gradient: Use different tones of a color to represent the different categories

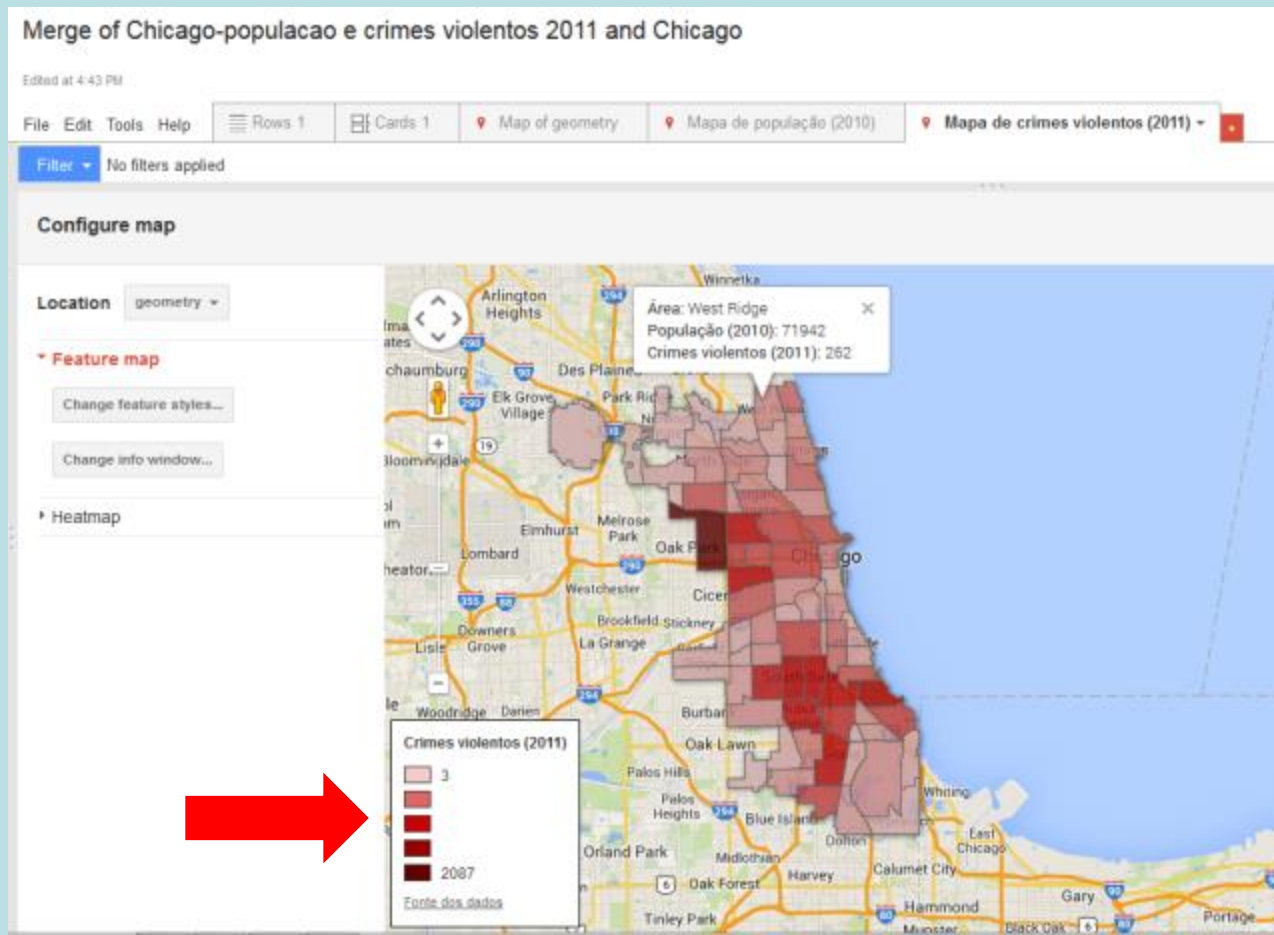


GOOGLE FUSION TABLES

Making a map... step by step ☺

Making thematic maps – Choropleth maps

- Disadvantage: Intervals are not given in the legend, only the lowest and highest values

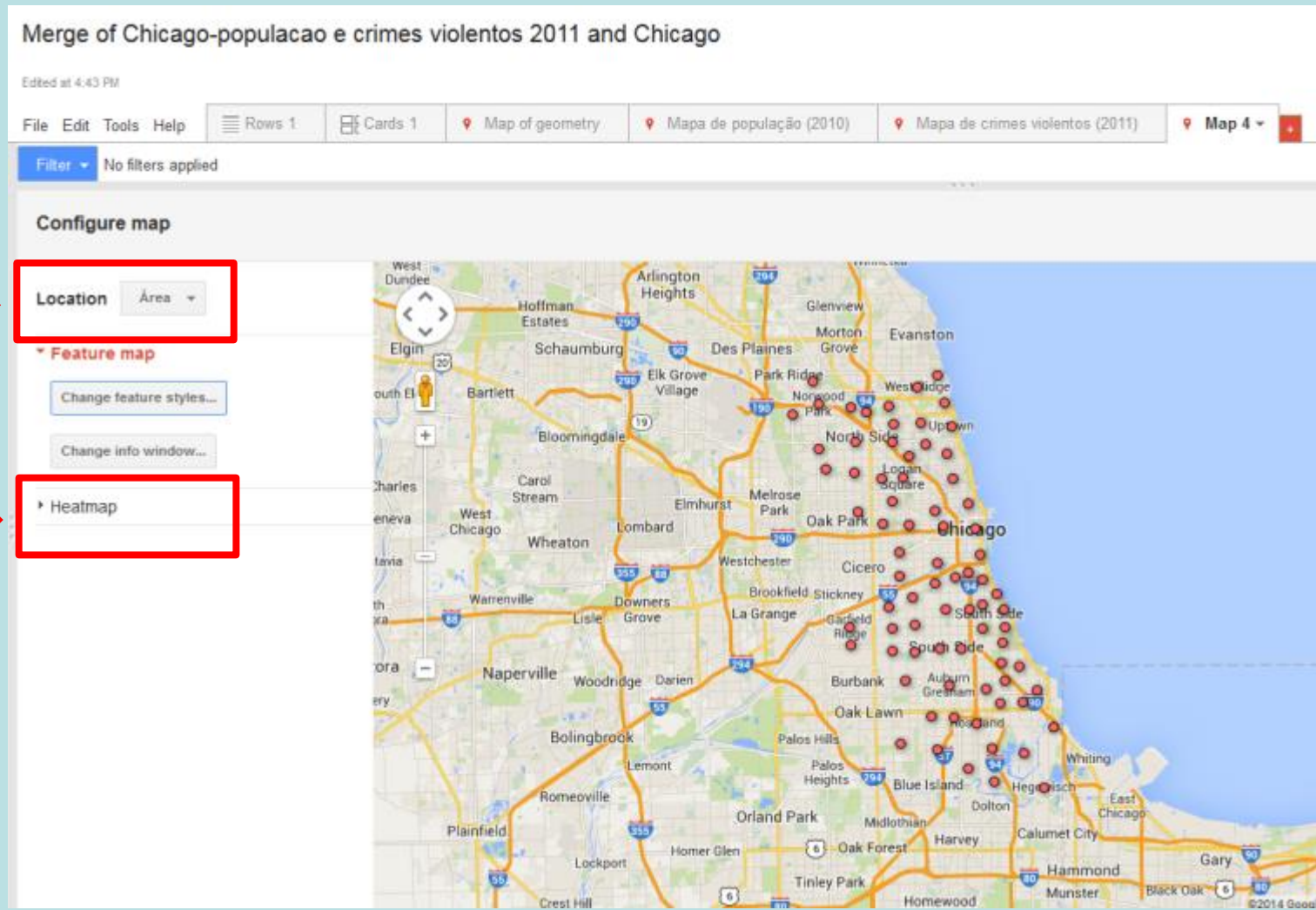


GOOGLE FUSION TABLES

Making a map... step by step ☺

Making thematic maps – Heat map:

Point data is depicted as a continuous color transition from green to red



GOOGLE FUSION TABLES

Making a map... step by step ☺

Making thematic maps – Heat map:

Point data is depicted as a continuous color transition from green to red

Configure map

Location

Feature map

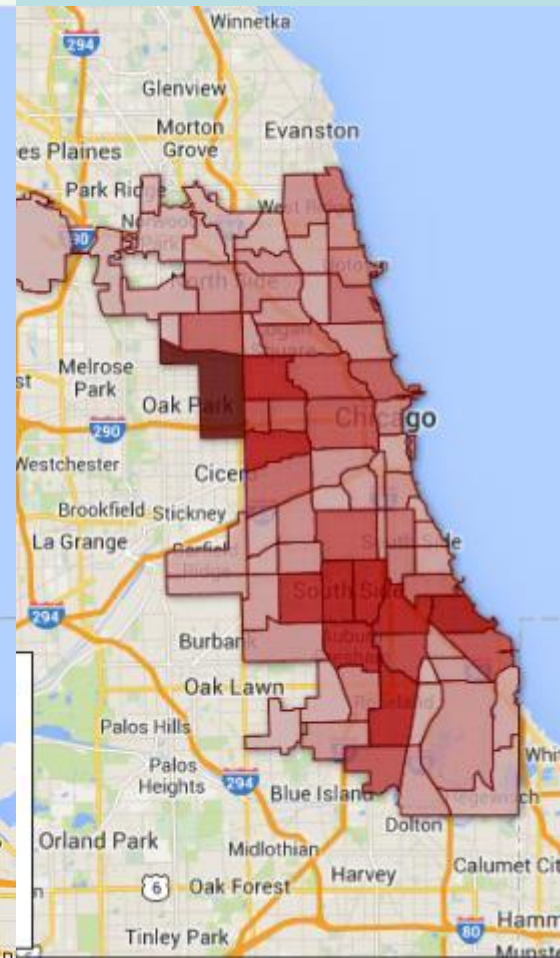
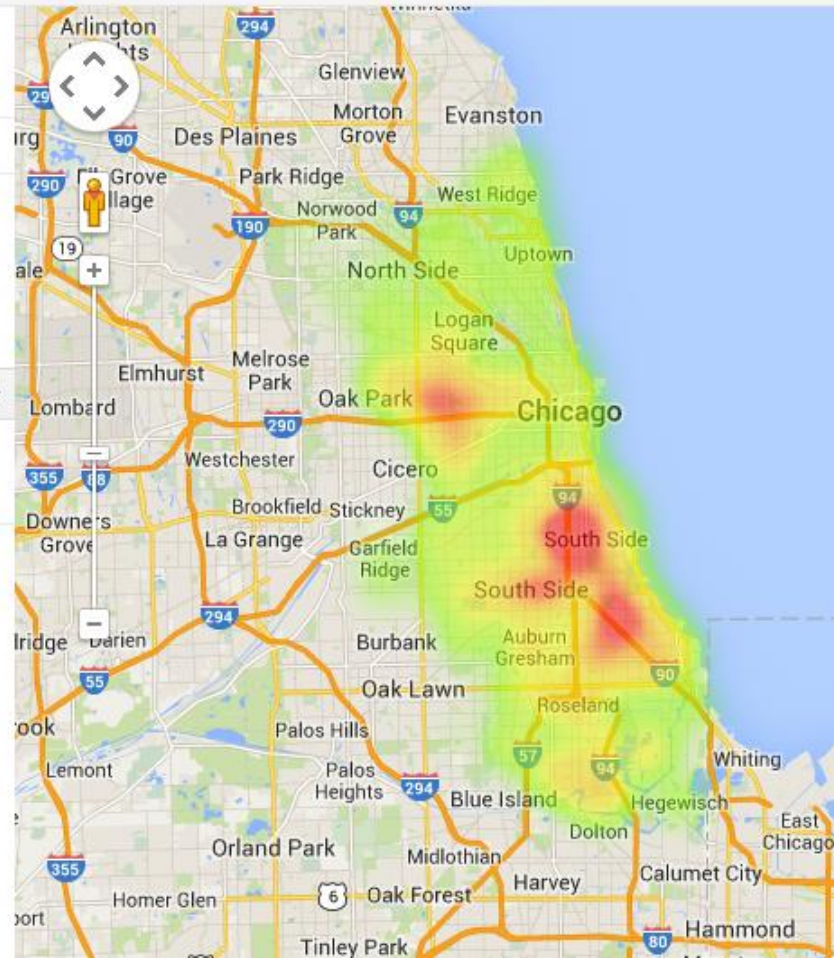
Heatmap

Radius 31

Opacity 51%

Weight

[Learn more](#)



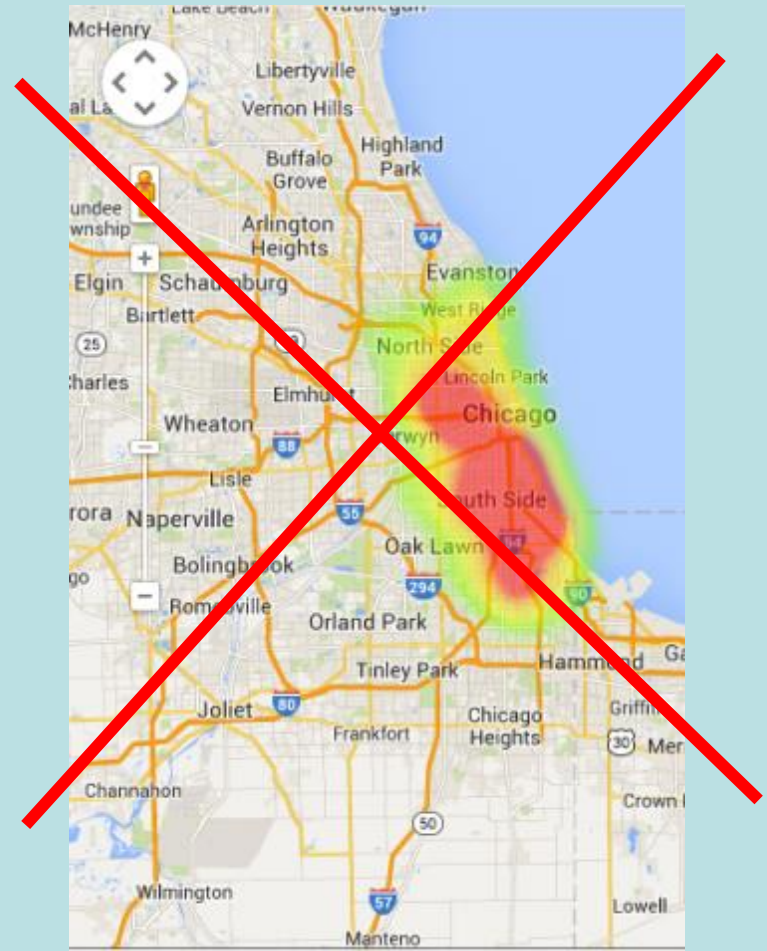
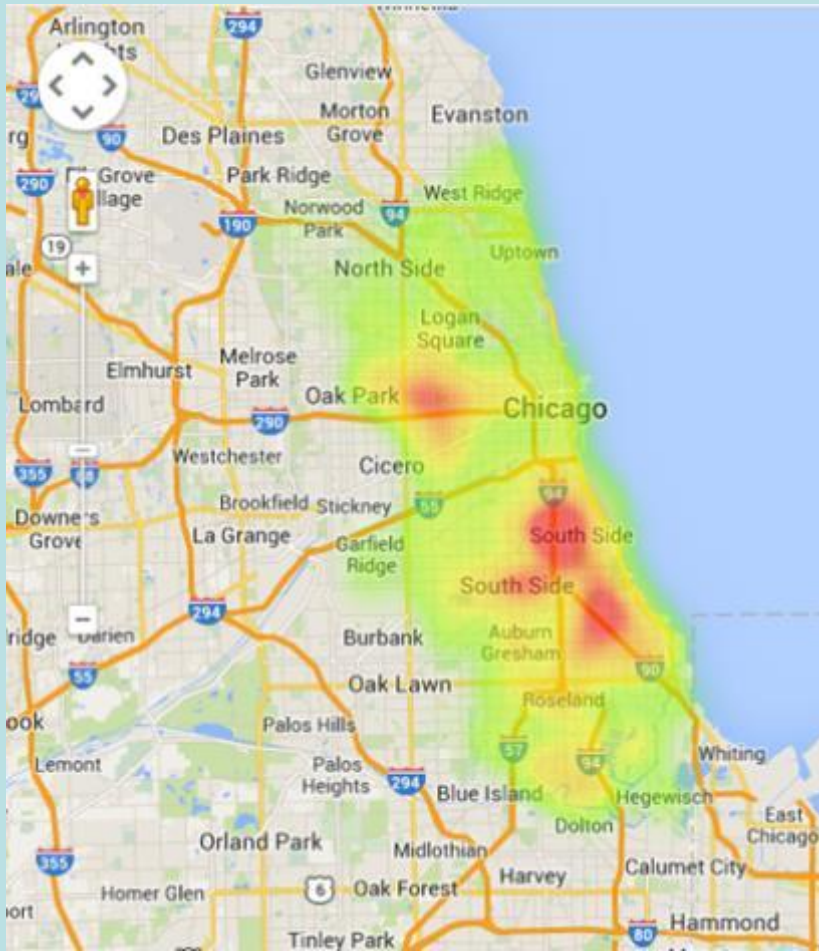
GOOGLE FUSION TABLES

Making a map... step by step ☺

Making thematic maps – Heat map:

Point data is depicted as a continuous color transition from green to red

Disadvantage: the map can only be displayed correctly at the selected scale (zoom)



GOOGLE FUSION TABLES

Making a map... step by step ☺

Using filters to select data in a map:

The image illustrates the process of creating a map in Google Fusion Tables. It is divided into three main sections:

- Left Panel:** A map of Chicago with a data popup for a specific area. The popup displays the following information:
 - ID: 77
 - Área: Edgewater
 - População (2010): 55521
 - Crimes violentos (2011): 233
 - Crimes violentos por 1000 pessoas (2011):
- Center Panel:** A screenshot of the Google Fusion Tables interface. The title is "Merge of Chicago-populacao e crimes violentos 2011 and Chicago". The filter bar shows the filter: "População (2010) >= 65000 AND População (2010) <= 100000". The "Configure map" panel is visible, showing the "Feature map" option selected. A red arrow points from the "Filter" dropdown in the center panel to the "Filter" dropdown in the right panel.
- Right Panel:** A map of Chicago with a legend for the population data. The legend is titled "População (2010)" and shows four color-coded ranges:
 - 2915 to 22036 (Lightest shade)
 - 22036 to 41156 (Light shade)
 - 41156 to 60275 (Medium shade)
 - 60275 to 79395 (Darkest shade)

GOOGLE FUSION TABLES

Making a map... step by step ☺

Using filters to select data in a table:

Merge of Chicago-populacao e crimes violentos 2011 and Chicago

Edited on August 19, 2014

File Edit Tools Help

Filter 'População (2010)' >= 65000 AND 'População (2010)' <= 100000. Sorted by 'População (2010)'

População (2010) 65000 - 100000 Find 77 values from 2916 through 98514

ID	Area	População (2010)	Crimes violentos (2011)	Crimes violentos po...	COMMUNITY	geometry
2	West Ridge	71942	262	3.64	WEST RIDGE	KML...
22	Logan Square	72791	472	6.48	LOGAN SQUARE	KML...
19	Belmont Cragin	78684	554	7.04	BELMONT CRAGIN	KML...
30	South Lawndale	79288	533	6.72	SOUTH LAWNDALE	KML...
8	Near North Side	80484	596	7.41	NEAR NORTH SIDE	KML...
24	West Town	82236	652	7.93	WEST TOWN	KML...
6	Lake View				LAKE VIEW	KML...
25	Austin				AUSTIN	KML...

File Edit Tools Help

- Share...
- New table...
- Open...
- Rename...
- Make a copy
- About this table
- Geocode...
- Merge...
- Find a table to merge with...
- Create view...
- Import more rows...
- Download...

Download

Download this table's contents to a file on your computer. [Learn more](#)

Contents ☐ All rows ☒ Filtered rows

Format ☒ CSV ☐ KML (enabled for maps) ☐ KML network link (enabled for maps)

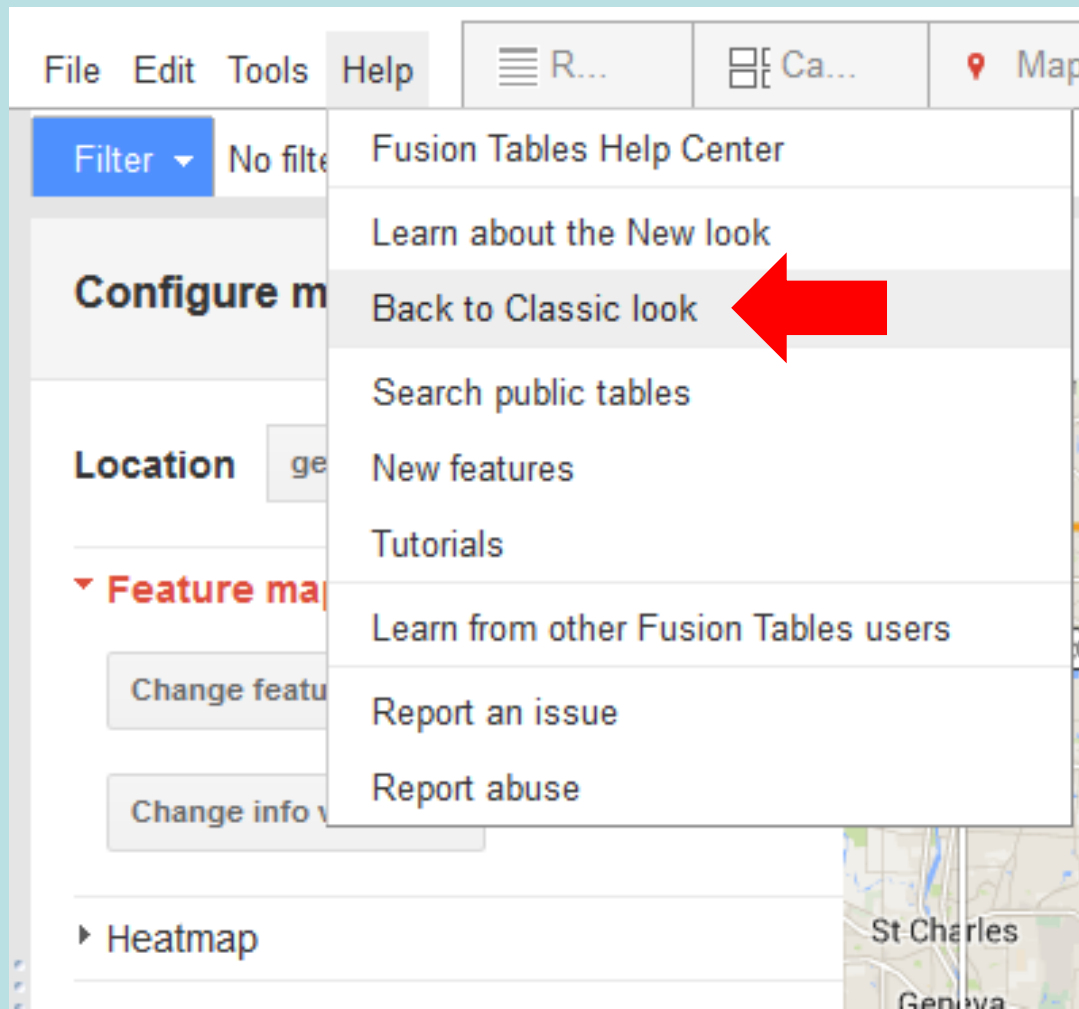
Download Cancel

GOOGLE FUSION TABLES

Making a map... step by step ☺

Making bar charts connected to a map...

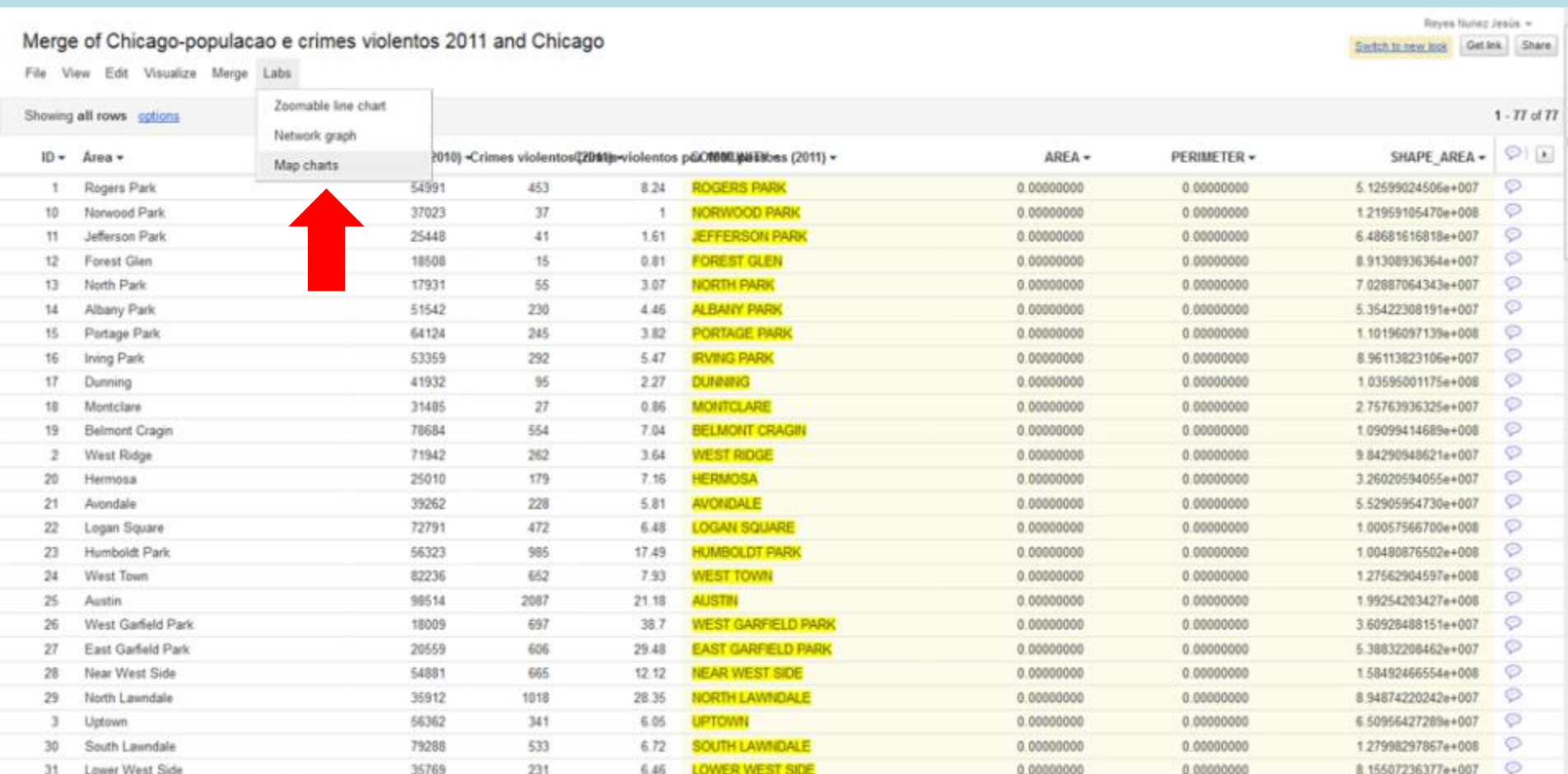
Condition: It can be made only in the Classic look



Making a map... step by step 😊

Making a map... step by step 😊

In the Classic look: Choose Map charts



GOOGLE FUSION TABLES

Making a map... step by step ☺

Making bar charts connected to a map...

Label: where is
the name of the
areas

Metrics:
Values to
represent

Merge of Chicago-populacao e crimes violentos 2011 and Chicago

File View Edit Visualize Merge Labs

Showing all rows [options](#)

Label

ID

Polygons

Área

Metrics

ID

População (2010)

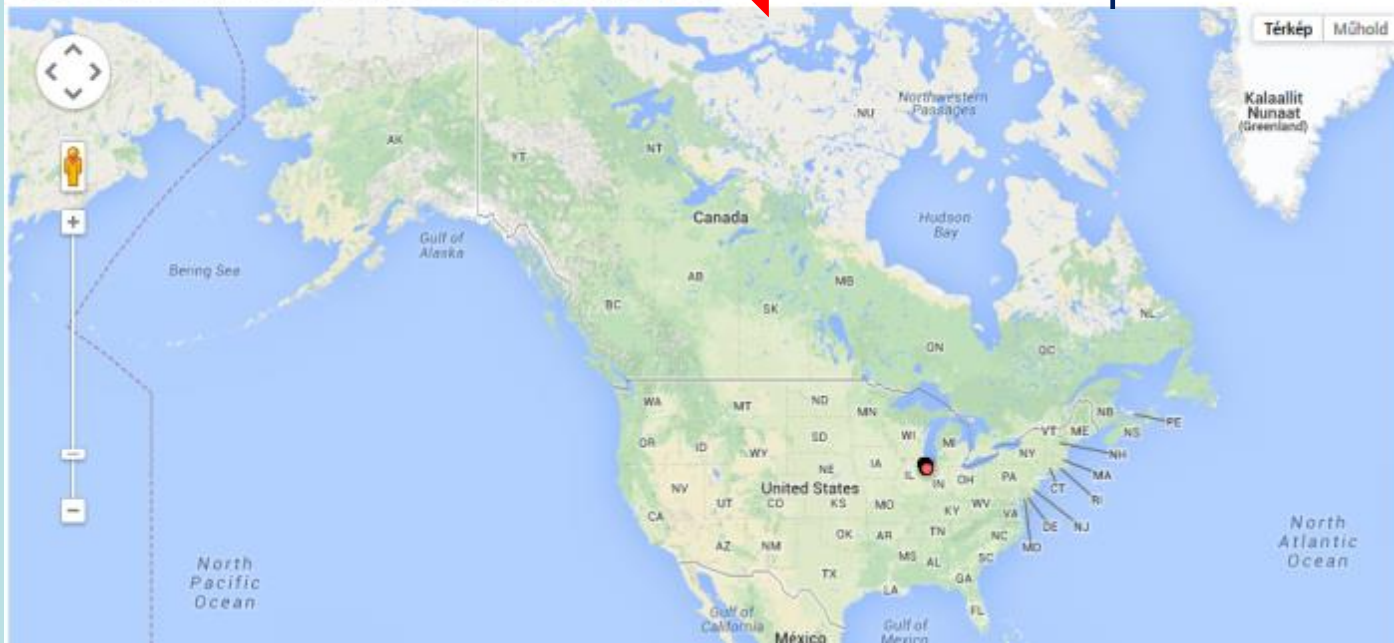
Crimes violentos (2011)

Get embeddable code

Polygons:
Geometry

After it we can
choose max. 4 areas
on the map

Select a region to view metrics. Click on a metric title to sort by that metric.

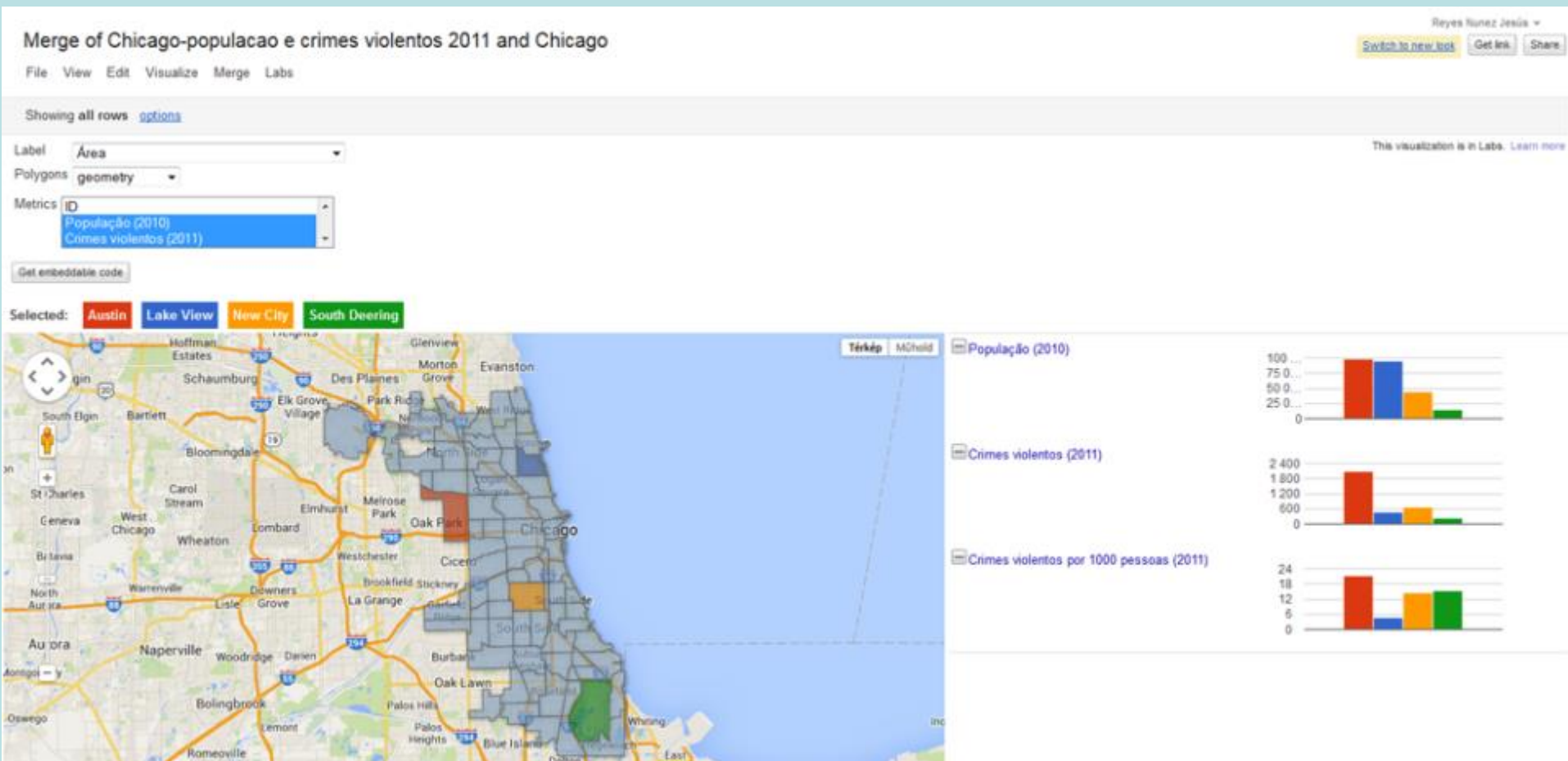


GOOGLE FUSION TABLES

Making a map... step by step ☺

Making bar charts connected to a map...

Result:



GOOGLE FUSION TABLES

Making a map... step by step ☺

Making bar charts connected to a map...

Publishing and sharing the results

Publish

This table is private and will not be visible. [Change visibility](#)

Send a link in email or IM

https://www.google.com/fusiontables/embedviz?viz=GVIZ&t=MAP_CHARTS&containerId=

Paste HTML to embed in a website

`<iframe width="500" height="300" scrolling="no" frameborder="no" src="https://www.goog`

Width Height

☐ Include data attribution

Back to the new look

Share this link via email or IM

<https://www.google.com/fusiontables/DataSource?snapid=S1396005gOy2>

☐ Save as Link: S1396005gOy2

Save

Configuración de uso compartido

Vínculo para compartir (solo habilitado para los colaboradores)

<https://www.google.com/fusiontables/DataSource?docid=1FXYVSe2Z3bf4bjPimwcYY>

Comparte este vínculo a través de:



Quién tiene acceso

☐ Privado: solo tú tienes acceso.

[Cambiar...](#)



Jesús Reyes Nunez (tú) reyesjesus01@g...

Es propietario