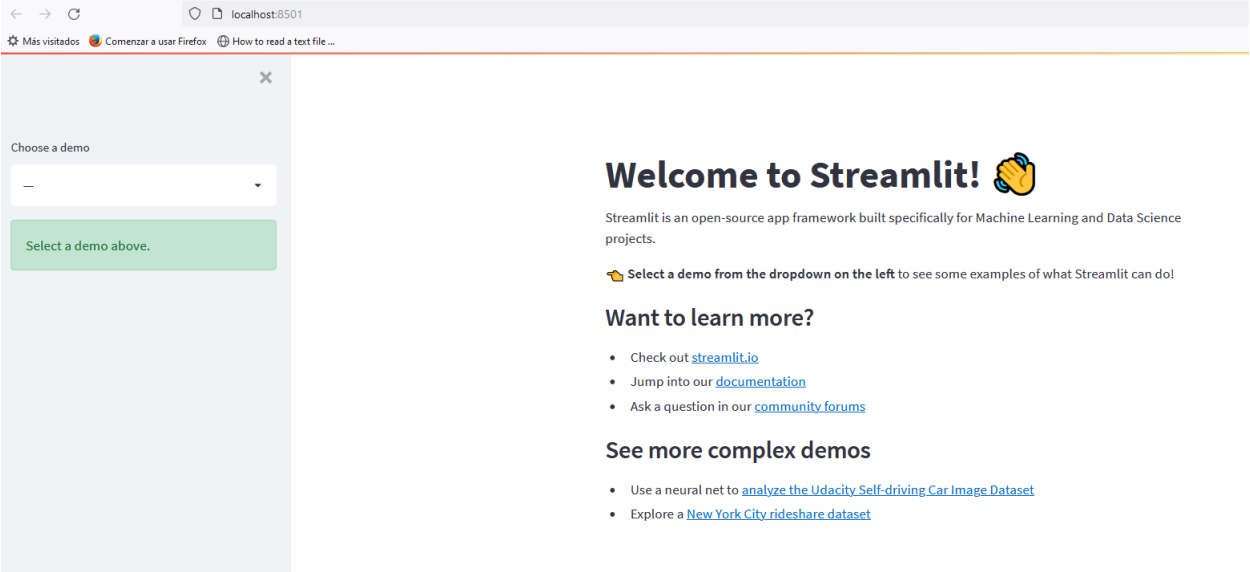


Instalando Streamlit:

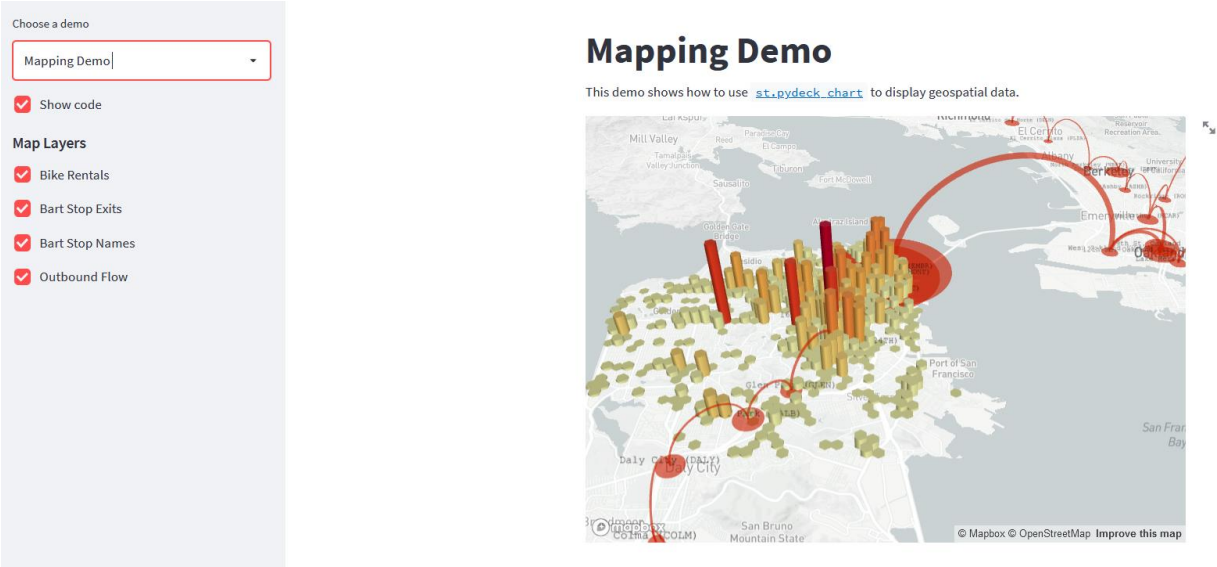
```
Terminal: Local x +

(pythonProject) C:\Users\Gary\PycharmProjects\pythonProject>pip install streamlit
Collecting streamlit
  Using cached streamlit-1.1.0-py2.py3-none-any.whl (8.3 MB)
Collecting blinker
  Using cached blinker-1.4.tar.gz (111 kB)
Collecting pillow>=6.2.0
  Downloading Pillow-8.4.0-cp38-cp38-win_amd64.whl (3.2 MB)
  |████████████████████████████████████████| 3.2 MB 3.3 MB/s
Collecting click<8.0,>=7.0
  Using cached click-7.1.2-py2.py3-none-any.whl (82 kB)
Collecting gitpython!=3.1.19
  Using cached GitPython-3.1.24-py3-none-any.whl (180 kB)
```

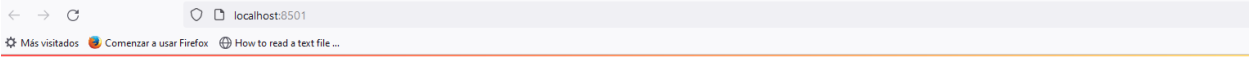
Ejecutando comando streamlit hello



Revisando Gráficas de ejemplo:



Primera parte del código ejecutada:



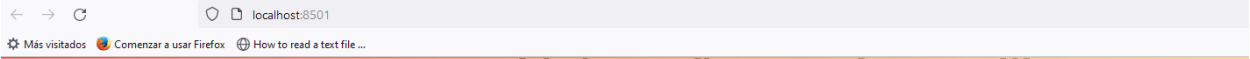
[↗](#) **This is mu first app from Galileo Master!**

4 square is 16

this is a data frame example

	Column A	Column B
0	A	1
1	B	2
2	C	3
3	D	4
4	E	5

Agregando Gráficas al ejercicio:



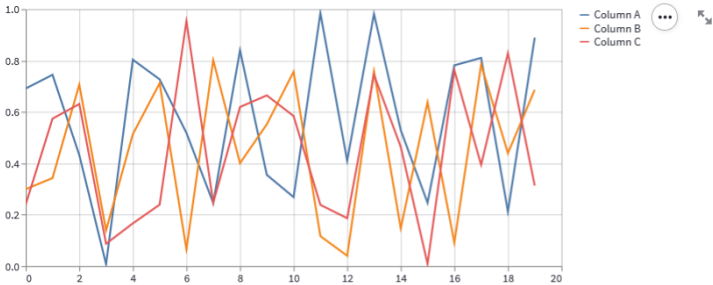
This is mu first app from Galileo Master!

4 square is 16

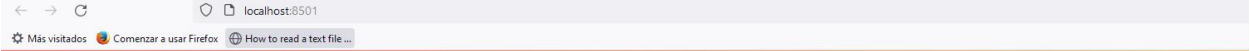
this is a data frame example

	Column A	Column B
0	A	1
1	B	2
2	C	3
3	D	4
4	E	5

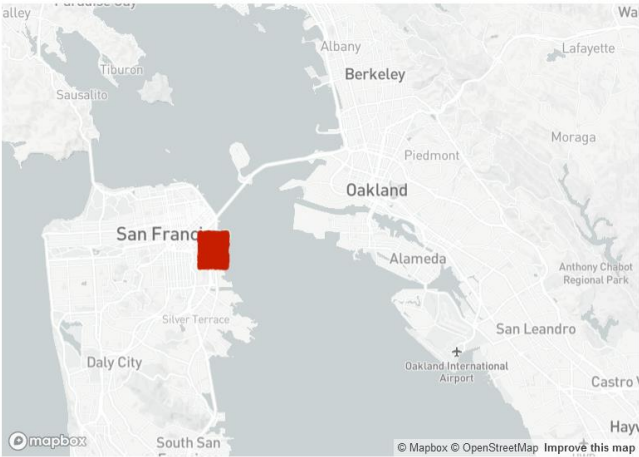
[↗](#) **Show me some graphs**



Ejemplo de Mapa:

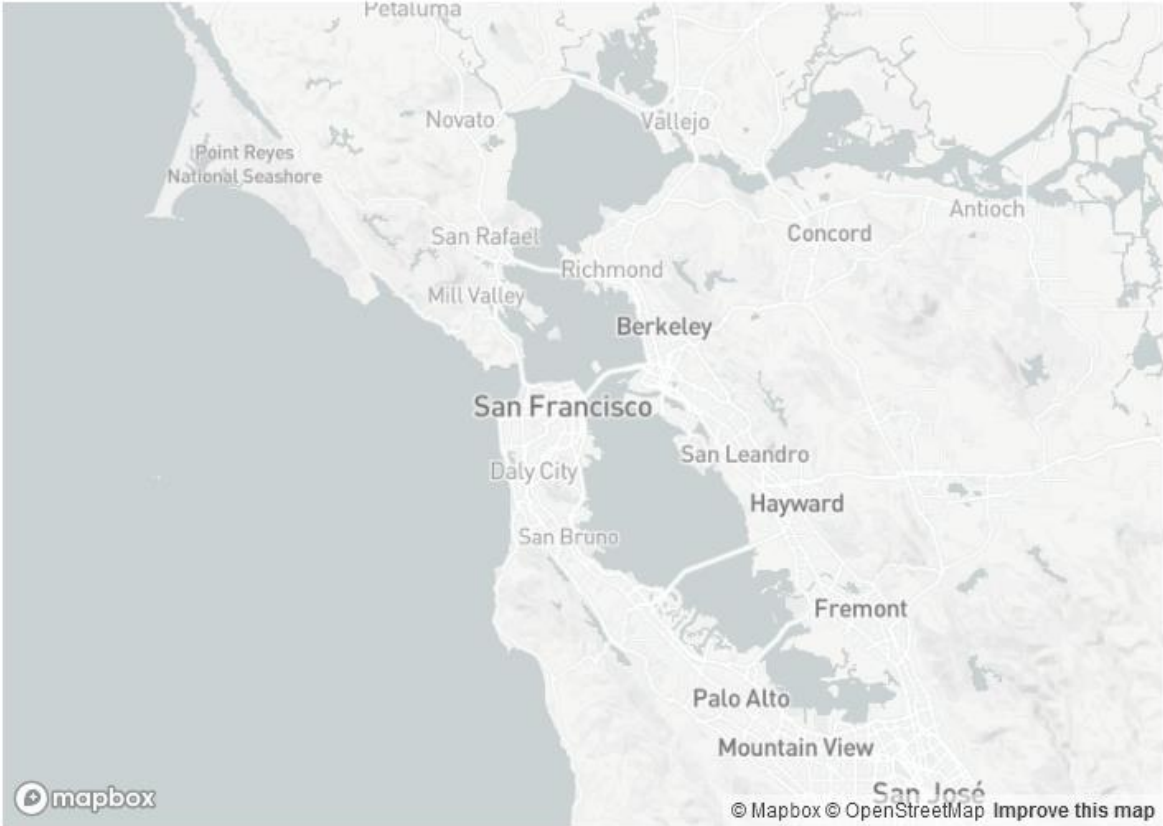


Let's plot a map!



Agregando checkbox para ver Data Frame:

Let's plot a map!



☒ show data frame

	lat	lon
0	37.7726	-122.387
1	37.7620	-122.391
2	37.7730	-122.386
3	37.7796	-122.390
4	37.7700	-122.385

Agregando widgets al proyecto:

Let's try some widgets

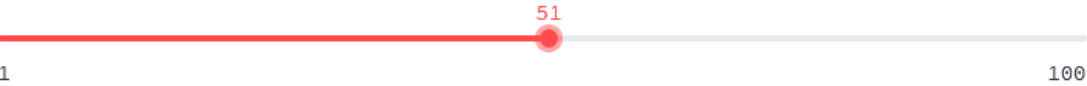
Select a value for X



17 Cube is 4913

Let's try some widgets

Select a value for X



Select power for X



51 ^ 2 2601

Agregando Opciones:

What about options

Which number do you like best?

6

your favorite numver is: 6

Agregando progress bar:

How about a progress bar

The value is: 16

Agregando Side bar al ejercicio:

This is a sidebar

Which number do you like best

4

The selection is: 4

mapbox

☐ show data frame

Let's try some widgets

1. Slider

Select a value for X

4

1

100

Select power for X

2

0

4

4

^

2

16

What about options

Which number do you like best?

1

your favorite numver is: 1

How about a progress bar

The value is: 100%

This wait is done

Agregando elementos al sidebar:

This is a sidebar

Select a side number

1

The selection is: 1

Another Slider

Select Range

25.00

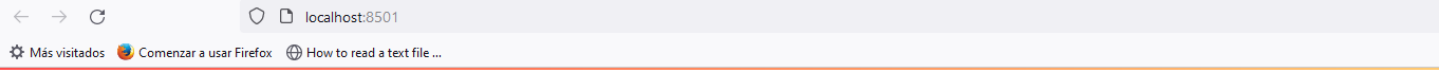
52.30

0.00

100.00

Ejercicio Uber Pickups:

Revisando data y creando proyecto:



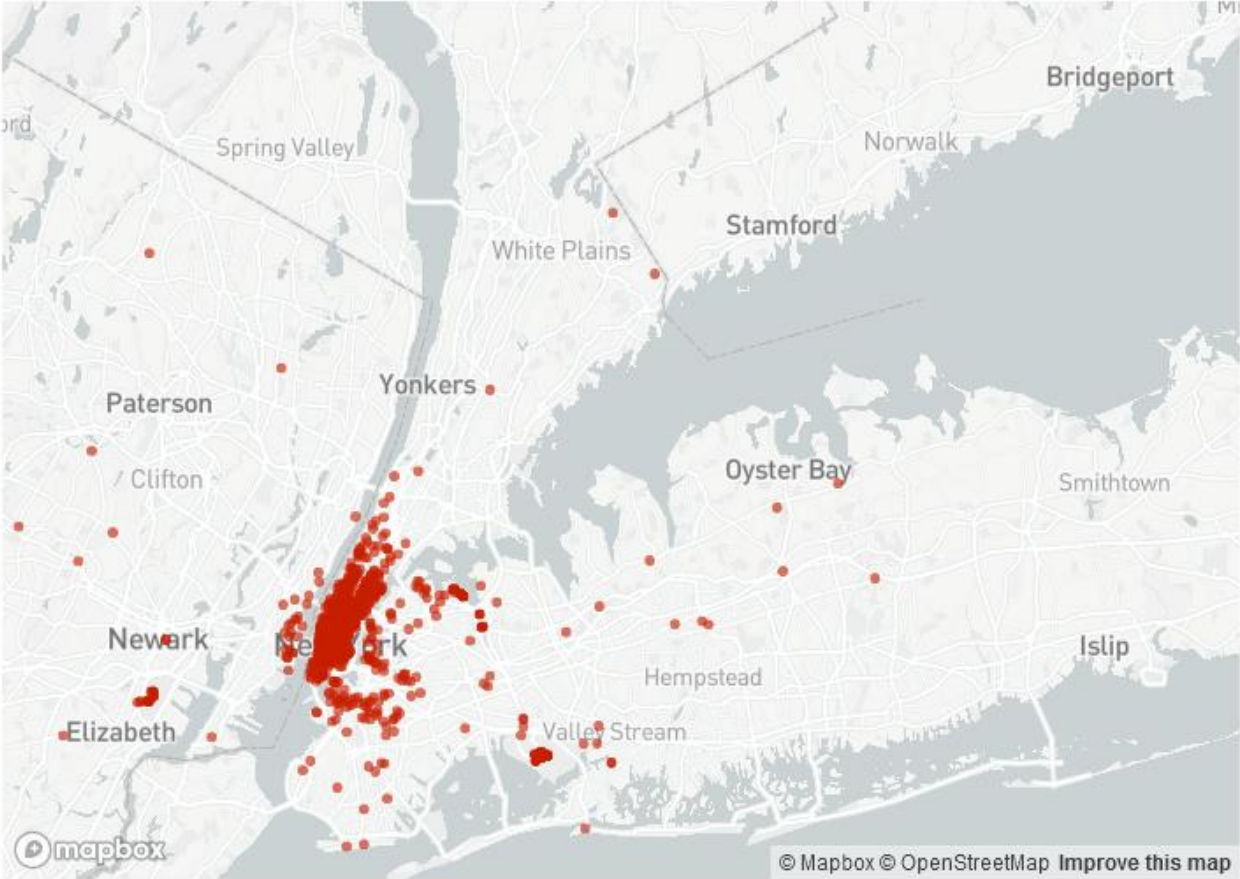
Uber pickups exercise

	Date/Time	Lat	Lon	Base	
0	9/1/2014 0:01:00	40.2201	-74.0021	B02512	^
1	9/1/2014 0:01:00	40.7500	-74.0027	B02512	
2	9/1/2014 0:03:00	40.7559	-73.9864	B02512	
3	9/1/2014 0:06:00	40.7450	-73.9889	B02512	
4	9/1/2014 0:11:00	40.8145	-73.9444	B02512	
5	9/1/2014 0:12:00	40.6735	-73.9918	B02512	
6	9/1/2014 0:15:00	40.7471	-73.6472	B02512	
7	9/1/2014 0:16:00	40.6613	-74.2691	B02512	
8	9/1/2014 0:32:00	40.3745	-73.9999	B02512	v
9					

Agregando mapas, solo 1,000 registros para velocidad:

Uber pickups exercise

	date_time	lat	lon	base	
1	2014-09-01T00:01:00	40.7500	-74.0027	B02512	^
2	2014-09-01T00:03:00	40.7559	-73.9864	B02512	
3	2014-09-01T00:06:00	40.7450	-73.9889	B02512	
4	2014-09-01T00:11:00	40.8145	-73.9444	B02512	
5	2014-09-01T00:12:00	40.6735	-73.9918	B02512	
6	2014-09-01T00:15:00	40.7471	-73.6472	B02512	
7	2014-09-01T00:16:00	40.6613	-74.2691	B02512	
8	2014-09-01T00:32:00	40.3745	-73.9999	B02512	
9	2014-09-01T00:33:00	40.7633	-73.9773	B02512	v
10					



Agregando sidebar para selección de cuanto data queremos ver, filtro por cantidad de registros y tiempo:

No rows to display:

8520

0

10000

Select the hour range

19

23

0

24

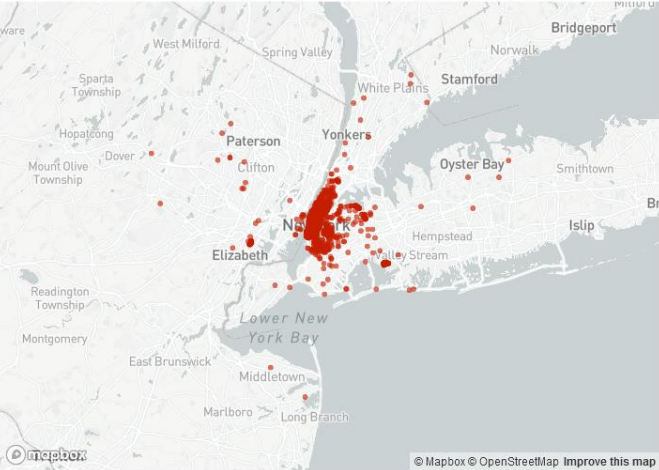
You selected

19

23

Uber pickups exercise

	date_time	lat	lon	base
478	2014-09-01T19:00:00	40.7433	-73.9180	B02512
479	2014-09-01T19:05:00	40.7453	-73.9769	B02512
480	2014-09-01T19:05:00	40.7406	-73.9983	B02512
481	2014-09-01T19:05:00	40.7224	-73.9873	B02512
482	2014-09-01T19:07:00	40.6448	-73.7818	B02512
483	2014-09-01T19:07:00	40.7340	-74.0049	B02512
484	2014-09-01T19:08:00	40.6942	-73.9059	B02512
485	2014-09-01T19:08:00	41.0628	-73.7103	B02512
486	2014-09-01T19:11:00	40.7386	-73.9975	B02512
487				



Tarea: Ordenar Data frame por fecha:

No rows to display:

1000

0

10000

Select the hour range

12

17

0

24

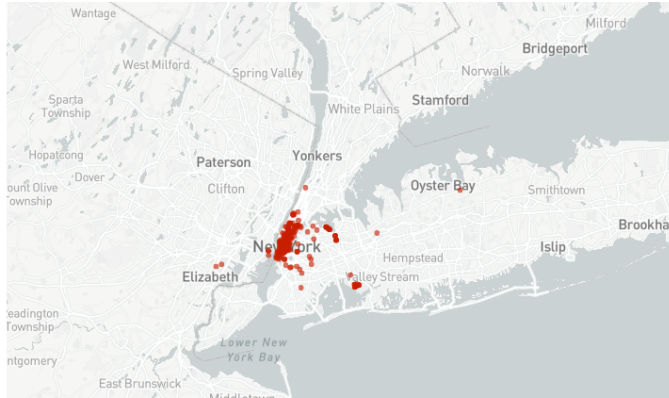
You selected

12

17

Uber pickups exercise

	date_time	lat	lon	base
177	2014-09-01T12:01:00	40.7088	-73.9210	B02512
178	2014-09-01T12:01:00	40.7179	-74.0146	B02512
179	2014-09-01T12:05:00	40.7701	-73.9832	B02512
180	2014-09-01T12:07:00	40.7683	-73.9848	B02512
181	2014-09-01T12:08:00	40.7496	-73.9834	B02512
182	2014-09-01T12:10:00	40.7400	-73.9897	B02512
183	2014-09-01T12:10:00	40.7625	-73.9756	B02512
184	2014-09-01T12:11:00	40.7703	-73.9601	B02512
185	2014-09-01T12:13:00	40.7315	-73.9924	B02512
186				



Agregar histograma por hora:

