Data Source : https://www.kaggle.com/carlosknows/taxis-in-mexico/data
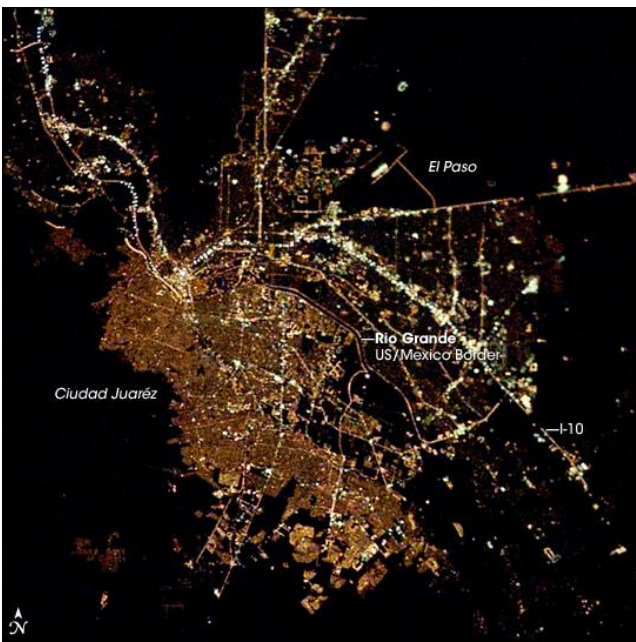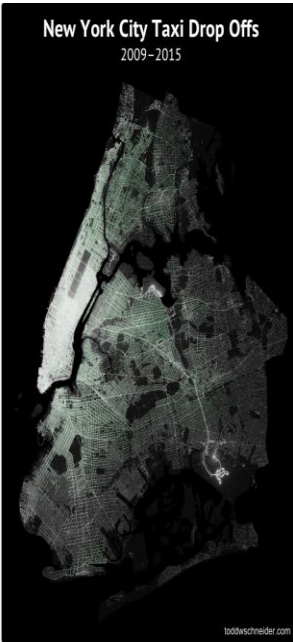
12694 taxi routes and Uber in Mexico City

Data fields

```
id - a unique identifier for each trip
vendor_id - the type of fare entered by the user (taxi, Uber, Cabify)
pickup_datetime - date and time when the meter was engaged
dropoff_datetime - date and time when the meter was disengaged
pickup_longitude - the longitude where the meter was engaged
pickup_latitude - the latitude where the meter was engaged
dropoff_longitude - the longitude where the meter was disengaged
dropoff_latitude - the latitude where the meter was disengaged
store_and_fwd_flag - Set always to N, matching the https://www.kaggle.com/c/nyc-taxi-trip
trip_duration - duration of the trip in seconds
dist_meters - the distance of the trip in meters
wait_sec - the time the car was completely stopped during the trip or waiting time in sec
```

Preview (first 100 rows)   Column Metadata

id	vendor_id	pickup_datetime	dropoff_datetime	pickup_longitude	pickup_latitude	dropoff_longitude	dropoff_latitude	store_and_fwd_flag	trip_duration
1	México DF Taxi Libre	2016-09-16 07:14:12	2016-09-18 04:41:40	-99.0973685123949	19.4168743724184	-99.2027286999851	19.4303531971542	N	120449
2		2016-09-18 06:16:33	2016-09-18 10:11:43	-99.2971484366732	19.3221277938308	-99.2899491307845	19.3265383409086	N	14110
3	México DF Taxi Libre	2016-09-18 10:11:50	2016-09-18 10:23:11	-99.2896028575666	19.3262625677733	-99.2718736003419	19.3285303084122	N	681
4	México DF Taxi Libre	2016-09-18 10:23:38	2016-09-18 10:30:53	-99.2711609184774	19.3288751603942	-99.2798998325071	19.3262558086244	N	436
5	México DF Taxi Libre	2016-09-18 10:44:18	2016-09-18 10:51:40	-99.282760564742	19.3269442547731	-99.2917049335146	19.3227535991281	N	442
6	México DF Taxi Libre	2016-09-18 10:58:07	2016-09-18 10:59:46	-99.2897117373175	19.3229290907957	-99.28928032	19.32597834	N	100
7	México DF Taxi Libre	2016-09-18 11:00:00	2016-09-18 11:05:45	-99.2853914251227	19.326246570615	-99.2825491942282	19.3281171303978	N	345
8	México DF Taxi Libre	2016-09-18 11:08:03	2016-09-18 11:17:06	-99.2858911590527	19.3300220658323	-99.289828	19.31916966	N	544
9	México DF Radio Taxi	2016-09-18 01:06:08	2016-09-18 01:26:34	-99.1823461401054	19.370885297397	-99.176534111828	19.3414101494624	N	1226
10	México DF Taxi de Sitio	2016-09-18 03:42:18	2016-09-18 04:11:00	-99.0747945	19.41258924	-99.1612394619893	19.3817008296625	N	1723
11	México DF Taxi de Sitio	2016-09-17 05:27:15	2016-09-18 04:12:15	-99.179569602105	19.4386264924141	-99.1796888598233	19.4385306956427	N	81901
12	México DF Taxi Libre	2016-09-18 11:28:56	2016-09-18 11:34:45	-99.2903399831339	19.3312143732811	-99.2948957334048	19.3206866935109	N	349
13	México DF Taxi de Sitio	2016-09-18 04:12:21	2016-09-18 04:21:02	-99.1796294740394	19.4385894108745	-99.1791074530471	19.4387774158831	N	521
14	México DF Taxi de Sitio	2016-09-18 04:27:42	2016-09-18 04:35:52	-99.1675894524336	19.3713349951328	-99.1705506775685	19.3875829506849	N	490
15	México DF Radio Taxi	2016-09-18 03:04:34	2016-09-18 05:00:20	-99.1800423723855	19.3702221294298	-99.193288	19.34044954	N	6946
16	México DF UberX	2016-09-18 05:39:10	2016-09-18 05:52:15	-99.140267803071	19.4800461122841	-99.1537898080732	19.4263262195977	N	786
17	México DF Radio Taxi	2016-09-18 04:59:28	2016-09-18 06:12:01	-99.2019088865385	19.5672202288461	-99.2033452575472	19.5794666264151	N	4353
18	México DF Taxi Libre	2016-09-18 08:46:39	2016-09-18 08:53:10	-99.2812339200123	19.333768101336	-99.2901493567215	19.3256891263797	N	391
19	México DF Taxi Libre	2016-09-18 09:34:44	2016-09-18 09:44:57	-99.2892185835262	19.336545617834	-99.2712829840518	19.3247660734192	N	613
20	México DF Taxi Libre	2016-09-18 09:46:27	2016-09-18 09:47:55	-99.2726998463385	19.3225621195357	-99.2733927406373	19.3272630681467	N	88
21	México DF Taxi Libre	2016-09-18 09:48:17	2016-09-18 09:59:25	-99.2736335618569	19.3274661625766	-99.279939547587	19.3433856861646	N	668
22	México DF Taxi Libre	2016-09-18 10:04:22	2016-09-18 10:30:16	-99.272464243435	19.3455538165888	-99.2697263888128	19.3360382826761	N	1555
23	México DF Taxi Libre	2016-09-18 11:56:29	2016-09-19 12:08:58	-99.2847578231604	19.3266295740138	-99.2972409614789	19.3216481604953	N	750
24	México DF Taxi Libre	2016-09-19 12:14:12	2016-09-19 12:15:32	-99.3013153152031	19.319494154104	-99.3015523428368	19.319171629837	N	81

New York City Taxi Pickups 2009-2015 / New York City Taxi Drop Offs 2009-2015

Todd W. Schneider, NYC taxi data visualization - Business Insider

Mexico City, Night
https://earthobservatory.nasa.gov/Features/CitiesAtNight/

I lived in Mexico City for a couple of years, due to its condition of a megacity the transfers of people become very complicated during the peak hours. Hence my interest in knowing more about how people's displacements behave over time. I want to map data from Pickups and Drop Offs over time and to discover relationships between the information.

Questions to address:
What are the most commons taxi routes by time?
Where are the most common areas by pickups?
Where are the most common areas by drop Offs?
What relationships can be stablished between time and location?

Python libraries/modules to use.

Numpy
pandas
matplotlib
matplotlib's basemap
Datetime module

Jessica Alcántara Rivera_Final Proposal ECD