

Start up Coffee in Boston

01

BOSTON IS A CENTER OF SCIENTIFIC RESEARCH. THE BOSTON AREA'S MANY COLLEGES AND UNIVERSITIES MAKE IT A WORLD LEADER IN HIGHER EDUCATION, INCLUDING LAW, MEDICINE, ENGINEERING AND BUSINESS. 02

COFFEE SHOP ARE POPULAR. WHY?

THE COFFEE SHOP OFFERS
A UNIQUELY CALM
ATMOSPHERE WHERE PEOPLE
CAN GATHER WITH FRIENDS TO
CATCH UP OVER COFFEE, HAVE A
RELAXED LUNCH WITH FAMILY
OR FOCUS ON WORK IN
A RELAXED ENVIRONMENT.

03

THE COFFEE SHOP IS A PERFECT PLACE TO HANG OUT IN A CASUAL SETTING AND MEET YOUR FRIEND OR CLASSMATES FOR A REGULARY STUDY DATE

2. Data section

To search a good place near colleges/university:

I used the data of location and geospatial data of college and university in https://data.boston.gov/dataset. I've cleaned the data before use it

2. Then I used Forsquare API to get the most common venues nearby the college and university of Boston and view the density of the coffee shop already opened

First I download the list of the college and University of Boston from the site https://data.boston.gov/dataset.

	lege	Univ.hea	d(60)						
Out[10]:		Schoolld	Name	Address	City	Zipcode	NumStudent	Latitude	Longitude
	0	431594	Massachusetts General Hospital Dietetic Intern	Fruit St, Boston, Massachusetts 02114	West End	365190	10	42.362599	-71.070141
	1	168005	Suffolk University	8 Ashburton PI Beacon Hill, Boston, Massachuse	Boston	149016	9148	42.358914	-71.061949
	2	165884	Benjamin Franklin Institute of Technology	41 Berkeley St, Boston, Massachusetts 02116	South End	78750	594	42.346111	-71.070187
	3	165112	Bunker Hill Community College	250 New Rutherford Ave, Boston, Massachusetts	Charlestown	203509	11009	42.375125	-71.069572
	4	166869	MGH Institute of Health Professions	36 1st Avenue, Boston, Massachusetts 02129	Charlestown	70077	900	42.374926	-71.053972
	5	165671	Emmanuel College	400 Fenway, Massachusetts 02115	Fenway/Kenmore	52212	2454	42.341525	-71.103479
	6	166984	School of the Museum of Fine Arts-Boston	230 The Fenway, Boston, Massachusetts 02115	Fenway/Kenmore	113496	754	42.338547	-71.096694
	7	167783	Simmons	300 Fenway, Boston, Massachusetts 02115	Fenway/Kenmore	240740	5003	42.339196	-71.099941
	8	164988	Boston University	One Silber Way, Boston, Massachusetts 02215	Fenway/Kenmore	593154	31960	42.349568	-71.099710
	9	164933	The Boston Conservatory	8 Fenway, Boston, Massachusetts 02215	Fenway/Kenmore	35350	682	42.346067	-71.090012
	10	168290	Wheelock College	200 the Riverway, Boston, Massachusetts 02215	Fenway/Kenmore	75256	1055	42.341749	-71.106421
	11	167631	Roxbury Community College	1234 Columbus Ave, Roxbury Crossing, Massachus	Roxbury	144812	2749	42.329244	-71.095495
	12	166638	University of Massachusetts-Boston	100 Morrissey Blvd, Boston, Massachusetts 02125	North Dorchester	264200	14912	42.313818	-71.039203
	13	0	Boston University Research	771 Commonwealth Ave	Fenway/Kenmore	0	0	42.350842	-71.109002
	14	0	Boston University School of Law	1 University Rd	Fenway/Kenmore	54767	0	42.351171	-71.109774
	15	0	Boston University Sargent College	635 Commonwealth Ave	Fenway/Kenmore	85902	0	42.349843	-71.102046
	16	0	Boston University School of Management	595 Commonwealth Ave	Fenway/Kenmore	12908	0	42.349447	-71.098109

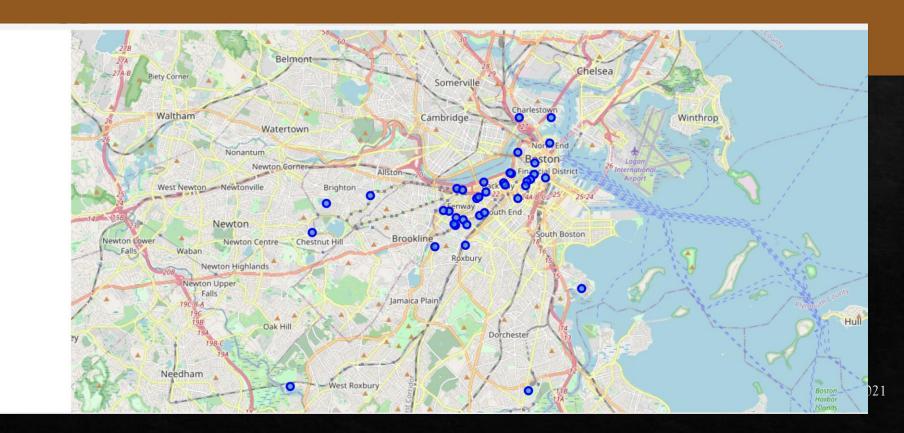
I've cleaned the data (remove entity with number of student =0, entity closed..)

In [17]: collegeUniv1.head(60)

Out[17]:

	Schoolld	Name	Address	City	Zipcode	NumStudent	Latitude	Longitude
0	431594	Massachusetts General Hospital Dietetic Intern	Fruit St, Boston, Massachusetts 02114	West End	365190	10	42.362599	-71.070141
1	168005	Suffolk University	8 Ashburton Pl Beacon Hill, Boston, Massachuse	Boston	149016	9148	42.358914	-71.061949
2	165884	Benjamin Franklin Institute of Technology	41 Berkeley St, Boston, Massachusetts 02116	South End	78750	594	42.346111	-71.070187
3	165112	Bunker Hill Community College	250 New Rutherford Ave, Boston, Massachusetts	Charlestown	203509	11009	42.375125	-71.069572
4	166869	MGH Institute of Health Professions	36 1st Avenue, Boston, Massachusetts 02129	Charlestown	70077	900	42.374926	-71.053972
5	165671	Emmanuel College	400 Fenway, Massachusetts 02115	Fenway/Kenmore	52212	2454	42.341525	-71.103479
6	166984	School of the Museum of Fine Arts-Boston	230 The Fenway, Boston, Massachusetts 02115	Fenway/Kenmore	113496	754	42.338547	-71.096694
7	167783	Simmons	300 Fenway, Boston, Massachusetts 02115	Fenway/Kenmore	240740	5003	42.339196	-71.099941
8	164988	Boston University	One Silber Way, Boston, Massachusetts 02215	Fenway/Kenmore	593154	31960	42.349568	-71.099710
9	164933	The Boston Conservatory	8 Fenway, Boston, Massachusetts 02215	Fenway/Kenmore	35350	682	42.346067	-71.090012
10	168290	Wheelock College	200 the Riverway, Boston, Massachusetts 02215	Fenway/Kenmore	75256	1055	42.341749	-71.106421
11	167631	Roxbury Community College	1234 Columbus Ave, Roxbury Crossing, Massachus	Roxbury	144812	2749	42.329244	-71.095495
12	166638	University of Massachusetts-Boston	100 Morrissey Blvd, Boston, Massachusetts 02125	North Dorchester	264200	14912	42.313818	-71.039203
13	164924	Boston College	140 Commonwealth Avenue, Chestnut Hill, Massac	Chestnut Hill	None	15036	42.333841	-71.169720
14	164438	New England College of Business and Finance	10 High St, Boston, Massachusetts 02110	Financial District	127396	765	42.353539	-71.056731
15	167297	North Bennet Street School	39 North Bennet St, Boston, Massachusetts 02113	North End	33790	144	42.365899	-71.054781
16	164845	Empire Beauty School-Boston	30 West Street, Boston, Massachusetts 02111	Financial District	25175	205	42.354859	-71.062371

And I viewed the results in a map of Boston



Then I searched in which area there are most college/University (more people to go to

coffee)

I search where are most college/university

In [28]: collegeUnivB_data.groupby('City').count()

Out[28]:

	Schoolld	Name	Address	Zipcode	NumStudent	Latitude	Longitude
City							
Back Bay	6	6	6	6	6	6	6
Beacon Hill	2	2	2	2	2	2	2
Boston	1	1	1	1	1	1	1
Charlestown	2	2	2	2	2	2	2
Fenway/Kenmore	12	12	12	12	12	12	12
Financial District	3	3	3	3	3	3	3
Hyde Park	1	1	1	1	1	1	1
North Dorchester	1	1	1	1	1	1	1
North End	1	1	1	1	1	1	1
South Dorchester	1	1	1	1	1	1	1
South End	1	1	1	1	1	1	1
West End	1	1	1	1	1	1	1
West Roxbury	1	1	1	1	1	1	1

02/01/2021

I decided to use the first three top area (Fenway/Kenmore, Back Bay, Financial District) to have more probability of success

	Schoolld	Name	Address	City	Zipcode	NumStudent	Latitude	Longitude
	7 164988	Boston University	One Silber Way, Boston, Massachusetts 02215	Fenway/Kenmore	593154	31960	42.349568	-71.099710
2	2 5 167358	Northeastern University	360 Huntington Ave, Boston, Massachusetts 02115	Fenway/Kenmore	142900	27537	42.340057	-71.088892
	6 167783	Simmons	300 Fenway, Boston, Massachusetts 02115	Fenway/Kenmore	240740	5003	42.339196	-71.099941
2	166656	MCPHS University	179 Longwood Ave, Boston, Massachusetts 02115	Fenway/Kenmore	104000	4252	42.336889	-71.101121
2	164748	Berklee College of Music	1140 Boylston St, Boston, Massachusetts 02215	Fenway/Kenmore	36300	4145	42.346698	-71.089012
2	168227	Wentworth Institute of Technology	550 Huntington Ave, Boston, Massachusetts 02115	Fenway/Kenmore	236886	3808	42.336629	-71.094941
2	166674	Massachusetts College of Art and Design	621 Huntington Ave, Boston, Massachusetts 02115	Fenway/Kenmore	217791	2422	42.336392	-71.100341
1	165802	Fisher College	118 Beacon Street, Boston, Massachusetts 02116	Back Bay	21600	1593	42.355259	-71.074141
2	164872	Boston Architectural College	320 Newbury Street, Boston, Massachusetts 02115	Back Bay	42344	1406	42.348469	-71.085801
Г	9 168290	Wheelock College	200 the Riverway, Boston, Massachusetts 02215	Fenway/Kenmore	75256	1055	42.341749	-71.106421
2	167057	The New England Conservatory of Music	290 Huntington Ave, Boston, Massachusetts 02115	Fenway/Kenmore	0	785	42.341102	-71.086447
	l 1 164438	New England College of Business and Finance	10 High St, Boston, Massachusetts 02110	Financial District	127396	765	42.353539	-71.056731
	5 166984	School of the Museum of Fine Arts-Boston	230 The Fenway, Boston, Massachusetts 02115	Fenway/Kenmore	113496	754	42.338547	-71.096694
1	164641	Bay State College	122 Commonwealth Avenue, Boston, Massachusetts	Back Bay	10182	753	42.351779	-71.076941
	8 164933	The Boston Conservatory	8 Fenway, Boston, Massachusetts 02215	Fenway/Kenmore	35350	682	42.346067	-71.090012
1	429128	Urban College of Boston	178 Tremont St, Boston, Massachusetts 02111	Financial District	63096	617	42.352899	-71.064081
2	167093	New England College of Optometry	424 Beacon St, Boston, Massachusetts 02115	Back Bay	17037	467	42.351859	-71.086811
1	164845	Empire Beauty School-Boston	30 West Street, Boston, Massachusetts 02111	Financial District	25175	205	42.354859	-71.062371
-	166276	Sanford-Brown College-Boston	126 Newbury Street, Boston, Massachusetts 02116	Back Bay	52830	158	42.351013	-71.076417

01/2021

I've use FourSquare to search the other coffees in these places to better understand the density of coffees in these area of Boston

	collegeUni	collegeUni Latitude	collegeUni Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Boston University	42.349568	-71.099710	Dunkin'	42.348530	-71.096283	Donut Shop
1	Boston University	42.349568	-71.099710	Tatte Bakery & Cafe	42.344007	-71.099991	Café
2	Boston University	42.349568	-71.099710	Pavement Coffeehouse	42.344178	-71.098410	Coffee Shop
3	Boston University	42.349568	-71.099710	Blackbird Doughnuts	42.344191	-71.100107	Donut Shop
4	Boston University	42.349568	-71.099710	Cafe 472	42.348727	-71.093684	Café
5	Boston University	42.349568	-71.099710	Tatte Bakery & Café	42.345800	-71.106915	Bakery
6	Boston University	42.349568	-71.099710	Cafe Landwer	42.346659	-71.105558	Israeli Restaurant
7	Boston University	42.349568	-71.099710	Pavement Coffeehouse	42.350030	-71.107020	Café
8	Boston University	42.349568	-71.099710	Starbucks	42.349533	-71.100130	Coffee Shop
9	Boston University	42.349568	-71.099710	Neighborhood's Coffee & Crepes	42.343101	-71.099287	Café
10	Boston University	42.349568	-71.099710	Starbucks	42.349398	-71.103116	Coffee Shop
44	D (11 · ·	10.010500	74 000740	0 (0.11	10.040050	74 400700	0 " O

I've also decided to group the information about coffee for college/university to understand better where is cool open coffee

boston_venues.groupby('collegeUni').count().sort_values(by='Venue',ascending=False)

	collegeUni Latitude	collegeUni Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
collegeUni						
Empire Beauty School-Boston	86	86	86	86	86	86
Urban College of Boston	84	84	84	84	84	84
New England College of Business and Finance	83	83	83	83	83	83
The Boston Conservatory	69	69	69	69	69	69
Bay State College	66	66	66	66	66	66
Sanford-Brown College-Boston	66	66	66	66	66	66
Butera School Of Art	60	60	60	60	60	60
The New England Conservatory of Music	56	56	56	56	56	56
Fisher College	52	52	52	52	52	52
School of the Museum of Fine Arts-Boston	52	52	52	52	52	52
New England College of Optometry	51	51	51	51	51	51
Simmons	49	49	49	49	49	49
Massachusetts College of Art and Design	46	46	46	46	46	46
MCPHS University	46	46	46	46	46	46
Wheelock College	46	46	46	46	46	46
Northeastern University	45	45	45	45	45	4
Berklee College of Music	44	44	44	44	44	44

02/01/2021

I viewed it the heatmap to understand the concentration



Conclusion

We see from heatmap that the coffees is not only for students but also for business peoples. We should be far from red zones because of the competitors but near the interesting places. For example I've decided to explore the venues near "Empire Beauty School-Boston«. A good place is probably near the college and the parks. The area is also full of theatre and so the coffee is also good place after a performance

