

Battle of Neighborhoods



Introduction

- Moving to a new city is a lot of effort
- Difficult to find new house in a correct locality
- Hundreds of Apps (for house rent) but not comprehensive
- Battle of neighborhoods solves it by incorporating different neighborhood criteria into an app for renting prices

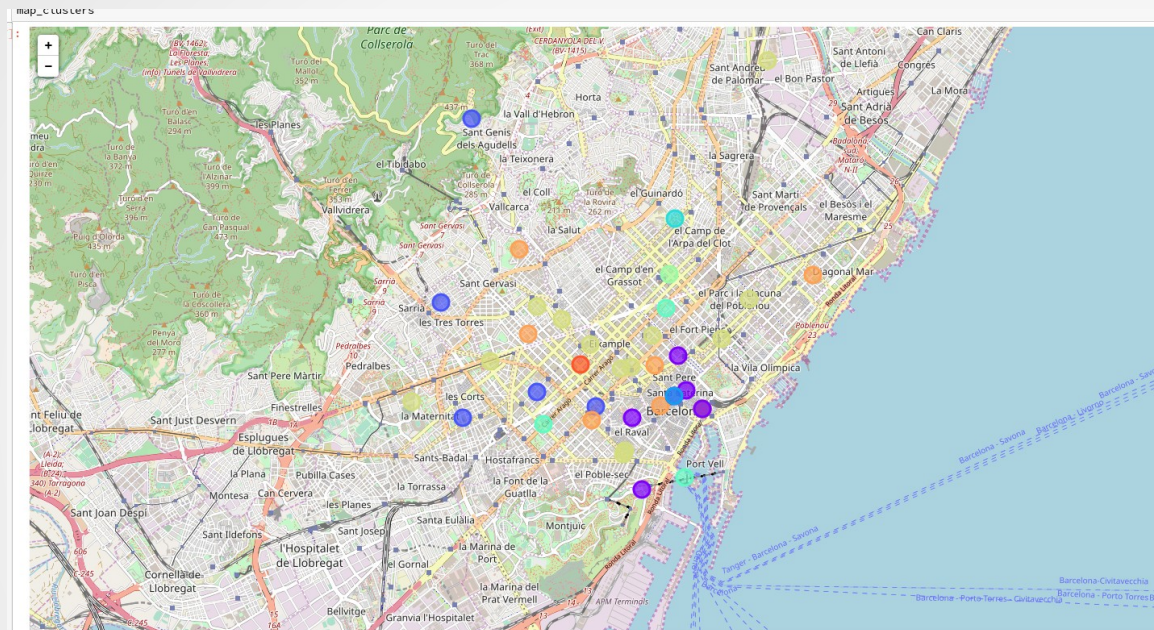
Data

Out[2]:

	Postal Code	Place Name	State	County	City	Latitude	Longitude
0	1001	Vitoria-Gasteiz	Pais Vasco	PV	Álava	42.8500	-2.6667
1	1002	Vitoria-Gasteiz	Pais Vasco	PV	Álava	42.8500	-2.6667
2	1003	Vitoria-Gasteiz	Pais Vasco	PV	Álava	42.8500	-2.6667
3	1004	Vitoria-Gasteiz	Pais Vasco	PV	Álava	42.8500	-2.6667
4	1005	Vitoria-Gasteiz	Pais Vasco	PV	Álava	42.8435	-2.6748

Barris	1r Trimestre
	13
1. el Raval	13,5
2. el Barri Gòtic	14,1
3. la Barceloneta	19,5
4. Sant Pere, Santa Caterina i la Ribera	15
5. el Fort Pienc	12,8
6. la Sagrada Família	13

Results



The above map shows different neighborhoods clustered based on the most usual venue types

Discussion

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In [153]: df5.head()
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Out[153]:
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	Postal Code	Neighborhood	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue	Rent per sq m
0	8001	El Raval	41.3818	2.1685	1	Hotel	Tapas Restaurant	Spanish Restaurant	Bar	Cocktail Bar	Bookstore	Vegetarian / Vegan Restaurant	Coffee Shop	Italian Restaurant	Café	-1.036621
1	8002	Gothic Quarter	41.3838	2.1744	8	Plaza	Hotel	Tapas Restaurant	Ice Cream Shop	Spanish Restaurant	Dessert Shop	Café	Japanese Restaurant	Gift Shop	Coffee Shop	-1.036621
2	8003	Clutat Vella, La Barceloneta	41.3862	2.1799	1	Tapas Restaurant	Bar	Cocktail Bar	Wine Bar	Italian Restaurant	Pizza Place	Dessert Shop	Spanish Restaurant	Vegetarian / Vegan Restaurant	Mediterranean Restaurant	-0.230360
3	8004	El Poble Sec	41.3765	2.1669	7	Tapas Restaurant	Cocktail Bar	Bar	Theater	Spanish Restaurant	Mediterranean Restaurant	Café	Hotel	Restaurant	Beer Bar	-0.230360
4	8005	El Poble Nou	41.3944	2.1874	7	Spanish Restaurant	Hostel	Coffee Shop	Rock Club	Café	Hotel	Music Venue	Burger Joint	Tapas Restaurant	Bistro	0.172770

This chart shows the user not only the housing average rent but also different culturally based neighborhoods in Barcelona. This gives a comprehensive idea about which neighborhood to choose from when selecting a new house in the new city