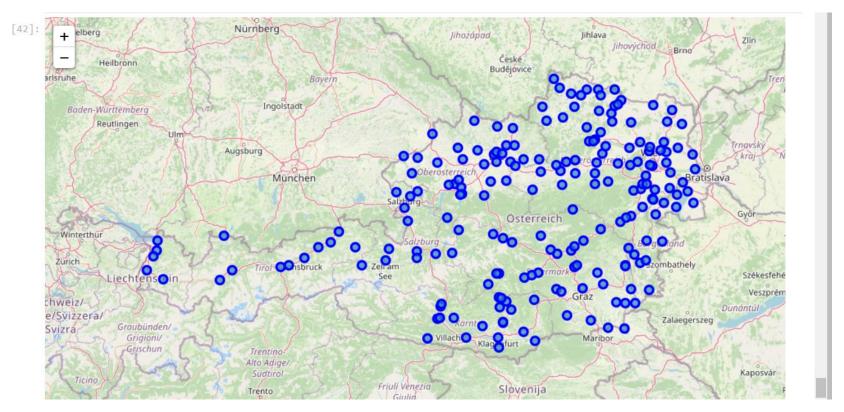
AUSTRIAN CITIES

"Analysis of Foursquare Profiles"

Presentation of the concept and key findings

The Starting Point: Overview of all Austrian Cities



https://de.wikipedia.org/wiki/Liste_der_St%C3%A4dte_in_%C3%96sterreich#FN_1

Analysis of Venue Densities and Definition of City Categories

citv	_densities1	.head()
		/ /

	Neighborhood	Total_Venues
0	Allentsteig	4
1	Altheim	6
2	Althofen	5
3	Amstetten	25
4	Ansfelden	38

[145]: city_densities1.describe()

[145]:		Total_Venues
	count	171.000000
\	mean	28.812865
	std	28.816051
	min	2.000000
	25%	9.000000
	50%	17.000000
	75 %	38.000000
	max	100.000000

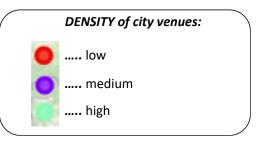
The density levels were set within the following lines of code:

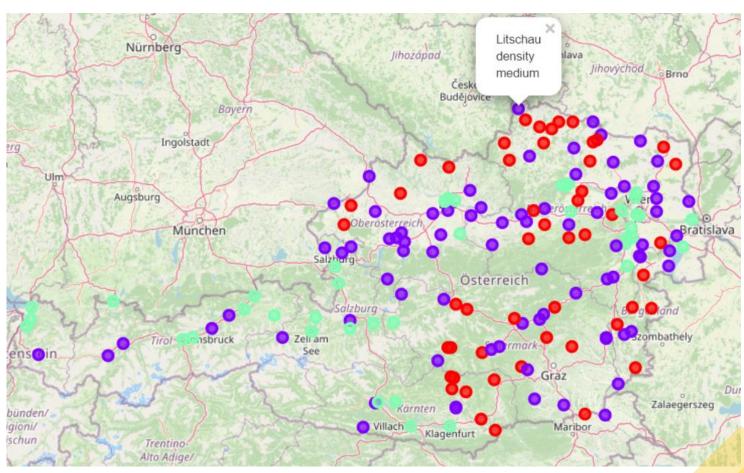
144]

```
#build three categories: low (25% <=9) medium (75% <=38) high (> 75%) restricted
by max=100 due to API limitations

city_densities1['density']='None'
city_densities1.loc[city_densities1.Total_Venues<=9,'density']="low"
city_densities1.loc[city_densities1.Total_Venues>38,'density']="high"
city_densities1.loc[city_densities1.density=='None','density']="medium"
```

Overview of City Categories





Number of Venues per City Category and Number of Cities

```
#can be expected that there is some correlation - this would be a topic for
          #further analyses. For this analysis it is out of scope
          low cities=austrian venues1['density']=="low"
          medium cities=austrian venues1['density']=="medium"
          high cities=austrian venues1['density']=="high"
          low cities=austrian venues1[low cities]
          medium cities=austrian venues1[medium cities]
          high cities=austrian venues1[high cities]
   [232]: print("The number of venues is:\n ",
               low_cities.shape[0], "..... for low density cities compared to:\n",
               medium_cities.shape[0],"..... for medium density cities and \n",
               high cities.shape[0],".... for high density cities \n\n",)
          print("The number of cities is:\n",
               len(low_cities.city.unique()), "..... for low density cities compared to:\n",
               len(medium cities.city.unique()),"..... for medium density cities and \n",
               len(high cities.city.unique()),"..... for high density cities")
          The number of venues is:
            313 ..... for low density cities compared to:
           1579 ..... for medium density cities and
           3035 ..... for high density cities
          The number of cities is:
           50 ..... for low density cities compared to:
           80 ..... for medium density cities and
           41 ..... for high density cities
```

Venues per Density Level

Cities per Density Level

Absolute Venue Scores per City Density Level

```
******* LOW DENSITY CITIES Top Venues Scores ********
             Top_Venue_Scores_low
Restaurant
                         5.41706
Supermarket
                         4.54008
Hotel
                         4.16667
Train Station
                         2.82976
Café
                         2.73929
****** MEDIUM DENSITY CITIES Top Venues Scores *******
             Top Venue Scores medium
Hotel
                            7.24864
Supermarket
                            7.18812
Restaurant
                            6.25747
Café
                            3.78236
Train Station
                            3.35658
******* HIGH DENSITY CITIES Top Venues Scores ********
                   Top_Venue_Scores_high
                                4.43448
Hotel
Restaurant
                                3.01256
Supermarket
                                 2.3515
Café
                                2.23123
```

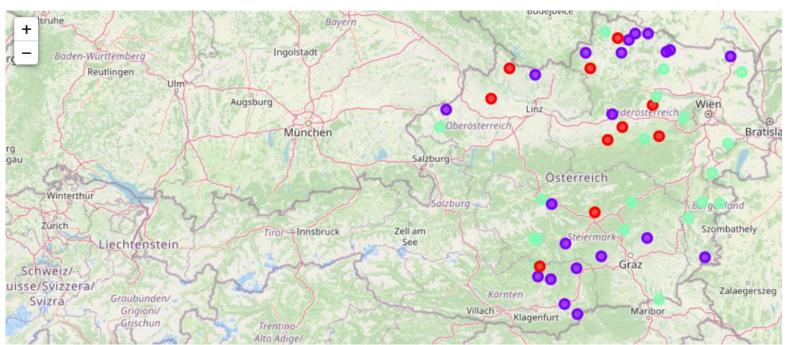
1.6498

Austrian Restaurant

Cluster "RED": food, restaurants and supermarkets

Cluster "BLUE": Hotel-Motel-Cafe, recreation & sports

Cluster "GREEN": Train & Travel, Restaurants, Bars & FastFood



Cluster "RED": food, restaurants and supermarkets

city	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	lat	
Groß Gerungs	Supermarket	Restaurant	Construction & Landscaping	Food	Grocery Store	Eastern European Restaurant	Fast Food Restaurant	Food & Drink Shop	Furniture / Home Store	Gas Station	48.573109	1
Hainfeld	Supermarket	Train Station	Pizza Place	Plaza	Hostel	Gastropub	Drugstore	Hotel	Eastern European Restaurant	Fast Food Restaurant	48.034881	1
Herzogenburg	Plaza	Pharmacy	Train Station	Café	Supermarket	German Restaurant	Drugstore	Eastern European Restaurant	Fast Food Restaurant	Food	48.285907	1
Mank	Supermarket	Gastropub	Cosmetics Shop	Pizza Place	Austrian Restaurant	Hostel	Home Service	Hotel Pool	Eastern European Restaurant	Fast Food Restaurant	48.111069	1
Peuerbach	Supermarket	Clothing Store	Multiplex	Gym / Fitness Center	Eastern European Restaurant	Fast Food Restaurant	Food	Food & Drink Shop	Furniture / Home Store	Gas Station	48.337974	1
Rohrbach- Berg	Supermarket	Plaza	Performing Arts Venue	Paper / Office Supplies Store	Outdoors & Recreation	Gastropub	Eastern European Restaurant	Fast Food Restaurant	Food	Food & Drink Shop	48.572372	1
Scheibbs	Supermarket	Italian Restaurant	Restaurant	Construction & Landscaping	Business Service	Dessert Shop	Gastropub	Eastern European Restaurant	Hotel Pool	Hotel	48.003677	1
Trofaiach	Supermarket	Grocery Store	Lake	Seafood Restaurant	Drugstore	Eastern European Restaurant	Fast Food Restaurant	Food	Food & Drink Shop		47.420494	1
	Groß Gerungs Hainfeld Herzogenburg Mank Peuerbach Rohrbach- Berg Scheibbs	city Common Venue Groß Gerungs Supermarket Hainfeld Supermarket Herzogenburg Plaza Mank Supermarket Peuerbach Supermarket	cityCommon VenueCommon VenueGroß GerungsSupermarketRestaurantHainfeldSupermarketTrain StationHerzogenburgPlazaPharmacyMankSupermarketGastropubPeuerbachSupermarketClothing StoreRohrbach-BergSupermarketPlazaScheibbsSupermarketRestaurantTrofaiachSupermarketGrocery	cityCommon VenueCommon VenueGroß GerungsSupermarketRestaurantConstruction & ElandscapingHainfeldSupermarketTrain StationPizza PlaceHerzogenburgPlazaPharmacyTrain StationMankSupermarketGastropubCosmetics ShopPeuerbachSupermarketClothing StoreMultiplexRohrbach-BergSupermarketPlazaPerforming Arts VenueScheibbsSupermarketGroceryLake	cityCommon VenueCommon VenueCommon VenueCommon VenueGroß GerungsSupermarketRestaurantConstruction & RestaurantFoodHainfeldSupermarketTrain StationPizza PlacePlazaHerzogenburgPlazaPharmacyTrain StationCaféMankSupermarketGastropubCosmetics ShopPizza PlacePeuerbachSupermarketClothing StoreMultiplexFitness CenterRohrbach-BergSupermarketPlazaPerforming Arts VenueOffice Supplies StoreScheibbsSupermarketRestaurantRestaurantConstruction & & LandscapingTrofaiachSupermarketGroceryLakoSeafood	cityCommon VenueCommon VenueCommon VenueCommon VenueGroß GerungsSupermarketRestaurantConstruction & EandscapingFoodGrocery StoreHainfeldSupermarketTrain StationPizza PlacePlazaHostelHerzogenburgPlazaPharmacyTrain StationCaféSupermarketMankSupermarketGastropubCosmetics ShopPizza PlaceAustrian RestaurantPeuerbachSupermarketClothing StoreMultiplexGym / Fitness CenterEastern European RestaurantRohrbach-BergSupermarketPlazaPerforming Arts VenuePaper / Office Supplies StoreOutdoors & Recreation StoreScheibbsSupermarketItalian RestaurantRestaurantConstruction & LandscapingBusiness Service	cityCommon VenueCommon VenueCommon VenueCommon VenueCommon VenueCommon VenueGroß GerungsSupermarketRestaurantConstruction & & Food & Grocery StoreEastern European RestaurantHainfeldSupermarketTrain StationPizza PlacePlazaHostelGastropubHerzogenburgPlazaPharmacyTrain StationCaféSupermarketGerman RestaurantMankSupermarketGastropubCosmetics ShopPizza PlaceAustrian RestaurantHostelPeuerbachSupermarketClothing StoreMultiplexGym / Fitness CenterEastern European RestaurantFast Food RestaurantRohrbach-BergSupermarketPlazaPerforming Arts VenuePaper / Office Supplies StoreOutdoors & Recreation StoreGastropubScheibbsSupermarketItalian RestaurantRestaurantConstruction & ServiceBusiness ServiceDessert ShopTrofaiachSupermarketGrocery StoreLakeSeafood DrugstoreDrugstoreEastern European	cityCommon VenueCommon VenueCommon VenueCommon VenueCommon VenueCommon VenueCommon VenueGroß GerungsSupermarketRestaurantConstruction & LandscapingFoodGrocery StoreEastern European RestaurantFast Food RestaurantHainfeldSupermarketTrain StationPizza PlacePlazaHostelGastropubDrugstoreHerzogenburgPlazaPharmacyTrain StationCaféSupermarketGerman RestaurantDrugstoreMankSupermarketGastropubCosmetics ShopPizza PlaceAustrian RestaurantHostelHome ServicePeuerbachSupermarketClothing StoreMultiplexGym / Eastern European RestaurantFast Food RestaurantFoodRohrbach-BergSupermarketPlazaPerforming Arts VenueOffice Supplies StoreOutdoors & RecreationGastropubEastern European RestaurantScheibbsSupermarketItalian RestaurantRestaurantConstruction & LandscapingBusiness ServiceDessert ShopGastropubTrofaiachSupermarketGrocery StoreLakeSeafood RestaurantDrugstoreEastern European Restaurant	city VenueCommon VenueCommon VenueCommon VenueCommon VenueCommon VenueCommon VenueCommon VenueGroß GerungsSupermarketRestaurantConstruction & LandscapingFoodGrocery StoreEastern European RestaurantFast Food RestaurantFood & RestaurantHainfeldSupermarketTrain StationPizza PlacePlazaHostelGastropubDrugstoreHotelHerzogenburgPlazaPharmacyTrain StationCaféSupermarketGerman RestaurantDrugstoreHotelMankSupermarketGastropubCosmetics ShopPizza PlaceAustrian RestaurantHostelHome ServiceHotel PoolPeuerbachSupermarketClothing StoreMultiplexGym / Office Office Supplies StoreEastern RestaurantFast Food RestaurantFood & RestaurantRohrbach- BergSupermarketPlaza Arts VenuePerforming Arts VenueOnstruction StoreOutdoors & RecreationGastropub ServiceEastern ShopEastern RestaurantScheibbsSupermarketItalian RestaurantConstruction LandscapingBusiness ServiceDessert ShopFast Food RestaurantFood RestaurantTrofaiachSupermarketGrocery StoreLakeSeafood RestaurantDrugstoreEastern European Restaurant	city Common Venue Common Venue	city Common Venue 2nd Most Common Venue 4th Most Common Venue 5th Most Common Venue 5th Most Common Venue 7th Most Common Venue 2th Most Common Venue Eastern Restaurant Food & Food & Food & Food & Food & Station Eastern Restaurant Food & Station Food & Station Food & F	cityCommon Venue2nd Most Venue3rd Most Venue4th Most Ownue5th Most Ownue2th Most Common Venue4th Most Commo

Cluster "BLUE": Hotel-Motel-Cafe, recreation & sports

338]:		city	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	lat	
	0	Allentsteig	Resort	Grocery Store	Bed & Breakfast	Historic Site	Drugstore	Eastern European Restaurant	Fast Food Restaurant	Food	Food & Drink Shop	Furniture / Home Store	48.696841	15
	1	Altheim	Austrian Restaurant	Hot Spring	Recruiting Agency	Restaurant	Hotel	Hotel Pool	Hostel	Drugstore	Eastern European Restaurant	Fast Food Restaurant	48.248668	13
	2	Althofen	Austrian Restaurant	Grocery Store	Hotel	Pharmacy	Brewery	Eastern European Restaurant	Fast Food Restaurant	Food	Food & Drink Shop		46.871469	14
	3	Bad Leonfelden	Hotel	Café	Plaza	Restaurant	Border Crossing	Supermarket	Drugstore	Eastern European Restaurant	Fast Food Restaurant	Food	48.522652	14
	4	Bad St. Leonhard im Lavanttal	Hotel	Café	Restaurant	Scenic Lookout	Supermarket	Plaza	Zoo	Drugstore	Eastern European Restaurant	Fast Food Restaurant	46.964637	14
	5	Bleiburg	Train Station	Hotel	Border Crossing	Brewery	Ski Area	Supermarket	Zoo	German Restaurant	Eastern European Restaurant	Fast Food Restaurant	46.590157	14
	6	Drosendorf- Zissersdorf	Hotel	Eastern European Restaurant	Park	Zoo	Grocery Store	Fast Food Restaurant	Food	Food & Drink Shop	Furniture / Home Store	Gas Station	48.848333	15
	8	Groß- Siegharts	Construction & Landscaping	Business Service	Hotel	Clothing Store	Café	Gym / Fitness Center	Food	Food & Drink Shop	Furniture / Home Store	Gas Station	48.800244	15
	9	Güssing	Plaza	Hotel	Basketball Stadium	Home Service	Health & Beauty	Cafeteria	Zoo	German Restaurant	Fast Food Restaurant	Food	47.058765	16

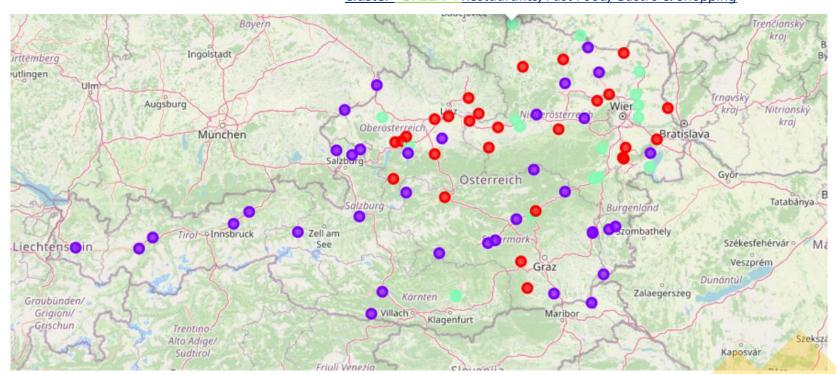
Cluster "GREEN": Train & Travel, Restaurants, Bars & FastFood

:	city	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	
10	Haag	Restaurant	Ski Area	Mountain Hut	Ski Lodge	Zoo	Gastropub	Drugstore	Eastern European Restaurant	Fast Food Restaurant	Food	47.20
12	Heidenreichstein	Construction & Landscaping	History Museum	Restaurant	Gastropub	Supermarket	Trail	Historic Site	Burger Joint	Hockey Arena	Home Service	48.86
15	Kindberg	Italian Restaurant	Restaurant	Train Station	Breakfast Spot	Supermarket	German Restaurant	Drugstore	Eastern European Restaurant	Fast Food Restaurant	Food	47.50
16	Kirchschlag in der Buckligen Welt	Restaurant	Supermarket	Building	Gym / Fitness Center	Eastern European Restaurant	Fast Food Restaurant	Food	Food & Drink Shop	Furniture / Home Store	Gas Station	47.50
18	Lilienfeld	Restaurant	Train Station	Bar	Gastropub	Supermarket	Café	Zoo	German Restaurant	Eastern European Restaurant	Fast Food Restaurant	48.01
19	Maissau	Restaurant	Wine Bar	Theme Park	Gas Station	Zoo	German Restaurant	Drugstore	Eastern European Restaurant	Fast Food Restaurant	Food	48.57
21	Mannersdorf am Leithagebirge	Train Station	Diner	Nature Preserve	Platform	Construction & Landscaping	Paintball Field	Café	Fast Food Restaurant	Food	Food & Drink Shop	47.97
22	Mattersburg	Train Station	Zoo	Fast Food Restaurant	Concert Hall	Castle	Soccer Field	Multiplex	Music Venue	History Museum	Historic Site	47.73

Cluster "RED": Supermarket, Train Station and Restaurants

Cluster "BLUE": Hotels, Pubs& Cafes and recreation

Cluster "GREEN": Restaurants, Fast Food, Gastro & Shopping



Cluster "RED": Supermarket, Train Station and Restaurants

	city	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 Mo Commo Venu
0	Amstetten	Supermarket	Fast Food Restaurant	Gastropub	Grocery Store	Asian Restaurant	Restaurant	Cocktail Bar	Sauna / Steam Room	Pizza Place	Eve Servi
1	Ansfelden	Supermarket	Furniture / Home Store	Restaurant	Shopping Mall	Fast Food Restaurant	Asian Restaurant	Park	Hotel	Clothing Store	Buff
2	Attnang- Puchheim	Train Station	Supermarket	Multiplex	Museum	Mountain	Furniture / Home Store	Shopping Mall	Gas Station	Electronics Store	Seafoc Restaura
5	Bad Ischl	Restaurant	Café	Supermarket	Hotel	Theater	Hot Spring	Gastropub	Mountain	Museum	Furniture Home Sto
11	Bruck an der Leitha	Restaurant	Train Station	Supermarket	Hotel	Steakhouse	Gas Station	Deli / Bodega	Pizza Place	Mediterranean Restaurant	Groce Sto
15	Deutschlandsberg	Pizza Place	Supermarket	Ice Cream Shop	Soccer Field	Dessert Shop	Restaurant	Construction & Landscaping	Cosmetics Shop	Event Space	Eve Servi
16	Ebenfurth	Supermarket	Pizza Place	Winery	Discount Store	Food	Gym	Ice Cream Shop	Lake	Park	Restaura
17	Ebreichsdorf	Restaurant	Smoke Shop	Supermarket	Golf Course	Coffee Shop	Pizza Place	Pharmacy	Park	Soccer Field	Event Spa
23	Horn	Train Station	Café	Hotel	Austrian Restaurant	Bakery	Fast Food Restaurant	Supermarket	Grocery Store	Multiplex	Historic Si
26	Kapfenberg	Supermarket	Fast Food Restaurant	Grocery Store	Airport	Train Station	Multiplex	Department Store	Shopping Mall	Gastropub	Ca

Cluster "BLUE": Hotels, Pubs& Cafes and recreation

	city	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
3	Bad Aussee	Hotel	Restaurant	Austrian Restaurant	Supermarket	Lake	Mountain	Gastropub	Diner	Pizza Place	Resort
4	Bad Hall	Hotel	Austrian Restaurant	Construction & Landscaping	Pool	Café	Spa	Supermarket	Gas Station	Gastropub	Restaurant
6	Bad Radkersburg	Hotel	Gastropub	Pizza Place	Brewery	Trail	Café	Supermarket	Bar	Hot Spring	Austrian Restaurant
8	Bischofshofen	Hotel	Italian Restaurant	Ski Area	Sporting Goods Shop	Café	Austrian Restaurant	Shopping Mall	Supermarket	Multiplex	Bakery
9	Bludenz	Hotel	Gastropub	Café	Shopping Mall	Austrian Restaurant	Candy Store	Pizza Place	Ski Lodge	Bowling Alley	Fast Food Restaurant
10	Braunau am Inn	Hotel	German Restaurant	Fast Food Restaurant	Nightclub	Plaza	Italian Restaurant	Grocery Store	Auto Garage	Shopping Mall	Steakhouse
13	Bärnbach	Hotel	Grocery Store	Rest Area	Construction & Landscaping	Café	Plaza	Burger Joint	Soccer Stadium	Fast Food Restaurant	Hardware Store
20	Hartberg	Hotel	Grocery Store	Rest Area	Construction & Landscaping	Café	Plaza	Burger Joint	Soccer Stadium	Fast Food Restaurant	Hardware Store
21	Hermagor- Pressegger See	Hotel	Café	Apres Ski Bar	Ski Area	Ski Chairlift	Ski Chalet	Supermarket	Gastropub	Bar	Resort
22	Hollabrunn	Supermarket	Hotel	Austrian Restaurant	Fast Food Restaurant	Department Store	Café	Bakery	Trail	Chinese Restaurant	Athletics & Sports

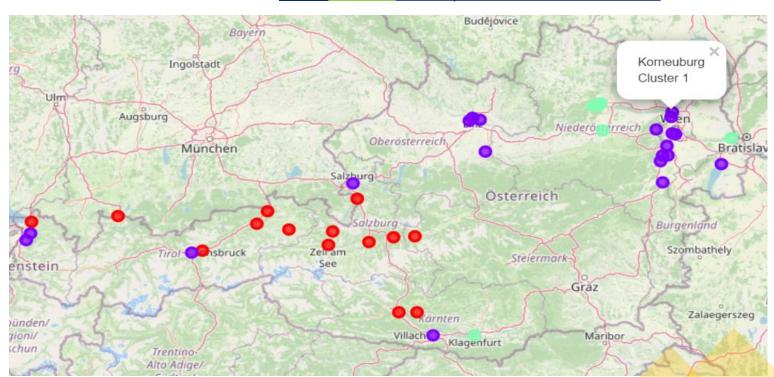
Cluster "GREEN": Restaurants, Fast Food, Gastro & Shopping

]:	city	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	lat
7	Berndorf	Fast Food Restaurant	Hotel	Austrian Restaurant	Restaurant	Park	Supermarket	Theater	Shopping Mall	Golf Course	Chinese Restaurant	47.950126
12	Bruck an der Mur	Restaurant	Fast Food Restaurant	Airport	Mexican Restaurant	Plaza	Café	Shopping Mall	Department Store	Dessert Shop	Multiplex	47.413884
14	Deutsch- Wagram	Food	Italian Restaurant	Sporting Goods Shop	Grocery Store	Steakhouse	Supermarket	Surf Spot	Golf Course	Fast Food Restaurant	Bakery	48.295987
18	Groß- Enzersdorf	Bus Stop	Restaurant	Grocery Store	Asian Restaurant	Austrian Restaurant	Fast Food Restaurant	Harbor / Marina	Plaza	Breakfast Spot	Shopping Mall	48.201800
19	Hardegg	Restaurant	Castle	Museum	Nightclub	Fast Food Restaurant	Czech Restaurant	Boat or Ferry	History Museum	Historic Site	Scenic Lookout	48.852451
30	Laakirchen	Restaurant	Bakery	Gastropub	Gas Station	Supermarket	Museum	Shopping Mall	Grocery Store	Mountain	Seafood Restaurant	47.985531
36	Litschau	Golf Course	Border Crossing	Platform	Restaurant	History Museum	Construction & Landscaping	Supermarket	Diner	Dessert Shop	Event Service	48.941959
41	Mistelbach	History Museum	Restaurant	Grocery Store	Mexican Restaurant	Plaza	Café	Bowling Alley	Fast Food Restaurant	Museum	Multiplex	48.570976
48	Neunkirchen	Trail	Italian Restaurant	Hotel	Train Station	Fast Food Restaurant	Cocktail Bar	Movie Theater	Supermarket	Shopping Mall	Business Service	47.722147
56	Ried im Innkreis	Italian Restaurant	Gastropub	Shopping Mall	Sandwich Place	Auto Dealership	Fast Food Restaurant	Restaurant	Steakhouse	Furniture / Home Store	Movie Theater	48.200460
57	Rust	Restaurant	Austrian Restaurant	Beach	Playground	Pizza Place	Buffet	Boat or Ferry	Supermarket	Theme Park	Hotel	47.803704

Cluster "RED": Hotel, Sports & Recreation Cluster

Cluster "BLUE": Hotel, Food & Restaurant

Cluster "GREEN": The unexpected Danube and Lake Cluster



Cluster "RED": Hotel, Sports & Recreation Cluster

	city	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	Most Common Venue	la
2	Bregenz	Hotel	Café	German Restaurant	Restaurant	Ice Cream Shop	Austrian Restaurant	Plaza	Supermarket	Beach	Italian Restaurant	47.502578
6	Hall in Tirol	Hotel	Supermarket	Italian Restaurant	Bakery	Austrian Restaurant	Furniture / Home Store	Restaurant	Bar	Train Station	Grocery Store	47.281665
7	Hallein	Hotel	German Restaurant	Restaurant	Supermarket	Ski Area	Asian Restaurant	Resort	Spa	Breakfast Spot	Bridge	47.679279
10	Kitzbühel	Hotel	Restaurant	Austrian Restaurant	Ski Chairlift	Supermarket	Gastropub	Resort	Apres Ski Bar	Ski Lodge	Ski Chalet	47.446359
15	Kufstein	Hotel	Supermarket	Café	Restaurant	Lake	German Restaurant	Train Station	Mountain Hut	Fast Food Restaurant	Drugstore	47.582996
23	Radenthein	Hotel	Restaurant	Austrian Restaurant	Supermarket	Resort	Ski Chalet	Ski Chairlift	Café	Beach	Food	46.800749
24	Radstadt	Hotel	Ski Area	Restaurant	Supermarket	Pizza Place	Austrian Restaurant	Bar	Ski Chalet	Sporting Goods Shop	Hotel Bar	47.384337
25	Saalfelden am Steinernen Meer	Hotel	Ski Area	Supermarket	Restaurant	Café	Trail	Gastropub	Italian Restaurant	Arcade	Bar	47.426617
27	Schladming	Hotel	Restaurant	Ski Area	Gastropub	Ski Lodge	Supermarket	Apres Ski Bar	Austrian Restaurant	Bar	Cable Car	47.393776
29	St. Johann im Pongau	Hotel	Ski Area	Restaurant	Austrian Restaurant	Café	Mountain	Supermarket	Ski Chairlift	Ski Lodge	Bar	47.346369
35	Vils	German Restaurant	Hotel	Supermarket	Café	Italian Restaurant	Cable Car	Bakery	Restaurant	Ice Cream Shop	Drugstore	47.549685

Cluster "BLUE": Hotel, Food & Restaurant

	city	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	
0	Bad Vöslau	Hotel	Café	Austrian Restaurant	Supermarket	Rest Area	Park	Gastropub	Chinese Restaurant	Fast Food Restaurant	Racetrack	47.96
1	Baden	Hotel	Restaurant	Wine Bar	Austrian Restaurant	Gastropub	Ice Cream Shop	Café	Racetrack	Bakery	Trail	48.00
3	Dornbirn	Café	Hotel	Supermarket	Chinese Restaurant	Bar	Asian Restaurant	Italian Restaurant	German Restaurant	Austrian Restaurant	Fast Food Restaurant	47.4°
8	Hohenems	Café	Bar	Hotel	Asian Restaurant	Italian Restaurant	Restaurant	Supermarket	Chinese Restaurant	Fast Food Restaurant	Shopping Mall	47.36
9	Innsbruck	Hotel	Bar	Restaurant	Austrian Restaurant	Supermarket	Gastropub	Pizza Place	Italian Restaurant	Café	Lounge	47.26
12	Klosterneuburg	Austrian Restaurant	Wine Bar	Restaurant	Bakery	Supermarket	Italian Restaurant	Asian Restaurant	Mountain	Café	Greek Restaurant	48.30
13	Korneuburg	Train Station	Supermarket	Restaurant	Gastropub	Asian Restaurant	Austrian Restaurant	Bakery	Italian Restaurant	Scenic Lookout	Greek Restaurant	48.34
16	Leonding	Restaurant	Italian Restaurant	Café	Supermarket	Bar	Hotel	Ice Cream Shop	Park	Gym	Beach	48.27
17	Lienz	Restaurant	Italian Restaurant	Bar	Burger Joint	Supermarket	Café	Hotel	Park	Ice Cream Shop	Museum	48.29
18	Linz	Restaurant	Italian Restaurant	Bar	Burger Joint	Supermarket	Café	Hotel	Park	Ice Cream Shop	Museum	48.29
20	Mödling	Supermarket	Wine Bar	Italian Restaurant	Hotel	Austrian Restaurant	Café	Ice Cream Shop	Bakery	Coffee Shop	Shopping Mall	48.08
21	Neusiedl am See	Clothing Store	Boutique	Italian Restaurant	Restaurant	Sporting Goods Shop	Coffee Shop	Supermarket	Hotel	Outlet Mall	Shopping Mall	47.94

<u>Cluster "GREEN":</u> The unexpected Danube and Lake Cluster

]:	city	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	lat	
4	D ürnstein	Restaurant	Café	Hotel	Wine Bar	Bar	Art Museum	Burger Joint	Austrian Restaurant	Diner	Supermarket	48.395388	15.5
5	Hainburg an der Donau	Café	Scenic Lookout	Supermarket	Restaurant	Castle	Hotel	Bakery	Garden Center	Music Store	Bus Station	48.146610	16.9
11	Klagenfurt I am Wörthersee	Restaurant	Café	Supermarket	Beach	Hotel	Fast Food Restaurant	Pizza Place	Grocery Store	Bar	Gastropub	46.622816	14.3
14	Krems an der Donau	Restaurant	Hotel	Café	Supermarket	Historic Site	Austrian Restaurant	Gastropub	Burger Joint	Winery	Bar	48.410838	15.6
19	Mautern an der Donau	Restaurant	Hotel	Café	Supermarket	Historic Site	Bar	Diner	Austrian Restaurant	Burger Joint	Gastropub	48.393791	15.5
30	St. Pölten	Café	Supermarket	Restaurant	Furniture / Home Store	Pub	Plaza	Fast Food Restaurant	Asian Restaurant	Steakhouse	Sporting Goods Shop	48.204398	15.6