

Data Description

(Capstone Project - The Battle of Neighborhoods - Week 2)

A.2. Data Description

The lack of accessible datasets that will help us to define the data about the city leads us to the necessity of create manually our own sets. In order to accomplish this task, we will have to review the **INE** portal (Instituto Nacional de Estadística – Statistic National Institute), **Wikipedia**, **Google Maps** and **Concello de Vigo** portal (Vigo Town Hall) and merge the information retrieved.

We will create two different datasets:

1. **CSV file** which contains the latitude, longitude and evolution of the population in each borough from 2000 to 2020

Borough	Latitude	Longitude	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Alcabre	42.2181014	-8.7673903	2407	2567	2778	2997	3067	3139	3183	3335	3415	3438	3530	3556	3560	3673	3822	3895	3998	4031	4171	4241	4300
Beade	42.1866194	-8.6985716	3403	3471	3458	5501	3453	3458	3430	3435	3444	3455	3470	3447	3437	3409	3377	3363	3301	3296	3309	3322	3292
Bembibre	42.158095	-8.6765599	3948	3982	3980	4063	4074	4155	4290	4330	4342	4360	4362	4402	4413	4427	4425	4361	4323	4258	4322	4343	4374
Cabral	42.2240068	-8.5567337	6879	6854	6788	6789	6738	6769	6772	6773	6824	6806	6786	6800	6759	6683	6680	6669	6622	6594	6544	6581	6628
Candeán	42.2460821	-8.6573084	4567	4600	4642	4699	4691	4723	4745	4785	4799	4842	4846	4857	4884	4860	4789	4739	4689	4688	4653	4639	4675
Castrelos	42.2067798	-8.7233403	7914	7908	7846	7849	7770	7823	7767	7772	7868	7927	8002	8047	7995	8006	7996	7989	7936	7948	7932	7987	7999
Comesaña	42.1993533	-8.7563773	2690	2809	2953	3031	3178	3290	3544	3716	4014	4361	4593	5138	5811	5905	6134	6219	6311	6364	6488	6513	6530
Coruxo	42.194983	-8.7000074	5201	5282	5284	5344	5353	5372	5387	5360	5299	5347	5388	5361	5349	5343	5301	5296	5336	5338	5310	5389	5324
Freixoiro	42.2191882	-8.7288709	5644	5805	5813	5928	6009	6055	6070	6093	6133	6171	6162	6158	6058	6035	5935	5998	5998	5949	5923	5952	6001
Lavadores	42.2261612	-8.6935987	16485	16494	16483	16667	16775	16952	17064	17176	17339	17727	17844	17984	17956	17878	17669	17587	17490	17484	17468	17522	17514
Matamá	42.1939002	-8.7315989	4233	4239	4154	4247	4206	4151	4126	4047	4029	3997	3939	3921	3868	3880	3831	3801	3809	3784	3711	3716	3669
Navia	42.2083036	-8.7673903	2090	2141	2164	2190	2206	2211	2266	2733	3034	3503	3960	4395	5205	5458	5584	5721	5871	6026	6074	6152	6246
Oia	42.1903143	-8.7998726	3701	3836	3896	3910	3947	3998	3953	3968	4010	4026	4020	4015	3972	3981	3988	3948	3920	3919	3859	3848	3896
Sandoma	42.2166842	-8.7113564	2004	1978	1960	1992	1965	2024	2031	2098	2184	2201	2219	2254	2303	2353	2357	2417	2402	2404	2390	2389	2443
Salnés	42.170616	-8.8114697	1070	1064	1068	1067	1048	1082	1104	1145	1171	1169	1156	1159	1153	1168	1191	1188	1204	1190	1177	1166	1169
Teis	42.2539025	-8.6806583	2397	2388	2377	2402	2349	2330	2313	2301	2272	2262	2273	2229	2453	2714	2864	3016	2843	2628	2486	2404	2317
Valadades	42.1770088	-8.7276238	5328	5426	5453	5468	5484	5471	5475	5409	5410	5419	5406	5387	5356	5361	5391	5403	5391	5354	5397	5357	5382
Zamáns	42.1576023	-8.685751	742	753	760	780	792	789	804	791	804	814	834	840	842	834	828	842	831	821	819	839	839

2. **Json file** with the latitude and longitude of each of the neighbors in each one of the boroughs described in the csv file

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      }
    ]
  }
}
```

Once we have completed our datasets, we will use Foursquare API to find the location of all the stores similar to the store that our client owns and segment the best location.