

2018

# Project 1: Insights from Data

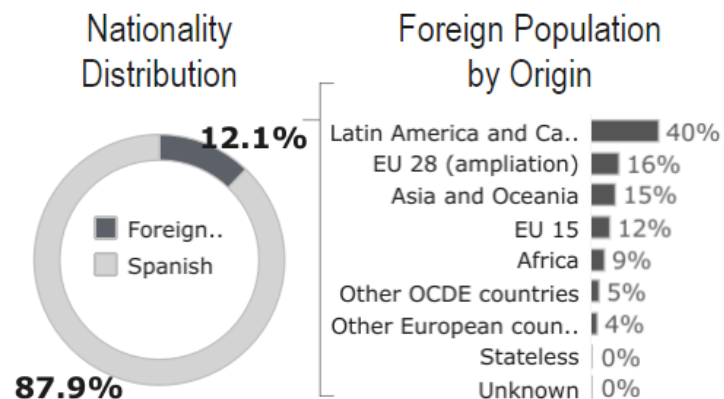
UDACITY: DATA FOUNDATION NANODEGREE  
EMILY LAU

14 September 2018

## Summary

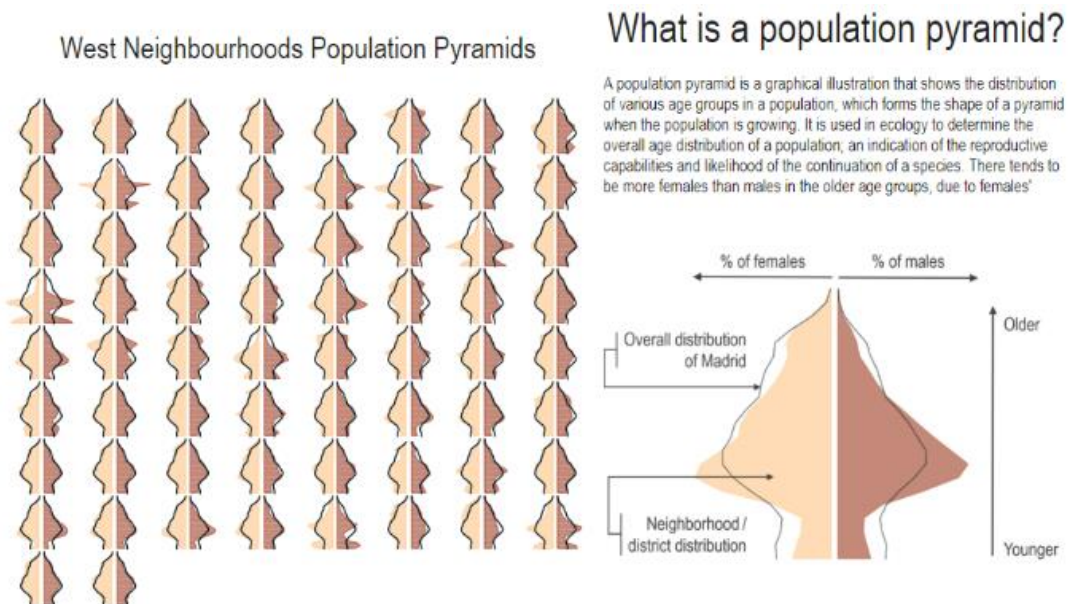
This project is to provide insights for the selected Tableau dashboard, which is Madrid Detail - <https://public.tableau.com/en-us/s/gallery/madrid-details?gallery=featured>.

### Insight 1 - Foreign Population by Origin in Madrid



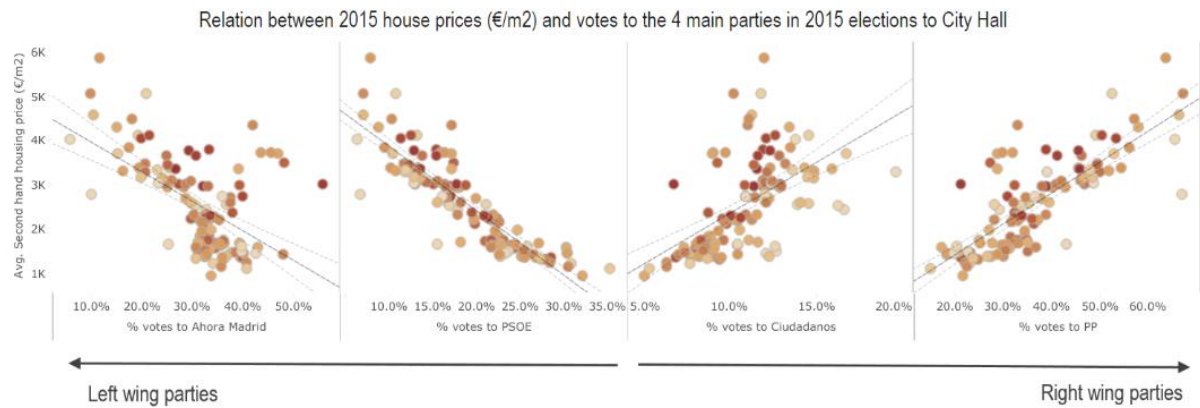
Based on the nationality distribution pie chart, 12.1% are foreigners and 87.9% are Spanish. From the foreign population by origin, 40% are from Latin America and Caribbean, which is almost half of the foreign population. Followed by 16% for EU 28 (ampliation), 15% for Asian and Oceania, 12% for EU 15, 9% for other OCDE and other European countries. There are no stateless and unknown foreigners.

### Insight 2 - West Neighbourhoods Population Pyramids



From the dashboard, under West Neighbourhoods Population Pyramids, I clicked on second row second from the left pyramid on the map which is Atocha. It showed the distribution of various age groups in the population. Compare to the rest of the pyramids, Atocha is one of the few with a high population in the 45-49 and 10-14 in age group exceeding the overall distribution of Madrid. There are more male (5.2%) compared to female (3.1%) for the 10-14 age group, which are way above the overall distribution of Madrid which is around 2% for both female and male population.

### Insight 3 - Relation between 2015 house prices and votes to PP



Based on the above, it shows that there is a strong positive correlation between 2015 house prices and votes to PP in 2015 elections to City Hall. The percentage of votes to PP increases as the average second hand housing price increases. There are also a number of extreme outliers such as Embajadores, Justicia, Fuentelarreina, Campamento, Jerónimos and Recoletos.