

Search for a bakery location in Barcelona (Spain)

Battle of Neighborhoods – Capstone Project

1. DATA REQUIRED

1/ Foursquare API: For getting data about **bakeries** and **neighborhood venues** in Barcelona

2/ **Population, Area and Density** -BCN **Figures by neighborhoods**-Urban statistics (data 2018)

<http://www.bcn.cat/estadistica/angles/dades/barris/timm/tterr/sup418.htm>

3/ **Family income** - BCN **Figures by neighborhoods**-

Economic statistics-Territorial distribution of household income (data 2017)

<http://www.bcn.cat/estadistica/angles/dades/economia/renda/rdfamiliar/evo/rfbarris.htm>

4/ **Rental€m2** - BCN **Figures by neighborhoods**-

Urban statistics - The real state market in Barcelona. (data 2018, 4Q summed up)

<http://www.bcn.cat/estadistica/angles/dades/barris/timm/ipreus/hablllo/ls2018.htm>

5/ **Latitude** and **longitude** by neighborhood :

Wikipedia+ Geohack (example for 'Raval' neighborhood: <https://es.wikipedia.org/wiki/Raval> following link "Ubicación" to get decimal coordinates

https://tools.wmflabs.org/geohack/geohack.php?language=es&pagename=El_Raval¶ms=41.38_N_2.16861_E_type:city)

Latitude and **longitude** are not neighborhood geographical center. It's supposed to be neighborhood residential center. I have detected 4 neighborhoods having wrong coordinates (placed in other neighborhood): *Sants, les Roquetes, Clot* and *Canyelles*. Their coordinates have been replaced by other manually estimated.

Sources from **2/ to 5/** summarized in Excel file: **"BCNData.xlsx"**

6/ Newspaper article **"The 10 best bakeries in Barcelona"** (January 11,2019)

<https://www.elperiodico.com/es/onbarcelona/visitar/20190111/mejores-panaderias-barcelona-7233367>

Coordinates obtained through geocode and further individual checking through Google maps.

"BestbakeriesBCN.xlsx" – This file contains Name, Address, Neighborhood and coordinates from article "10 best bakeries in Barcelona".

7/ **"bcn_neighborhoods.json"** –

Used for choropleth maps, this file contains bcn neighborhood polygonal limits.

(2 Excel and 1 Json files mentioned available through my GitHub folder:

<https://github.com/Kaloid98/Capstone>)