Capstone Project - The Battle of Neighborhoods (Week 2)

April 19, 2020

1 Exploring the business potential for opening a hotel in Madrid

1.1 1.Introduction

This report explores the opportunities for the opening of a new hotel in the city of Madrid.

Madrid is the European tourist capital with the most average expenditure per tourist with âĆň 355 per day.

During the last 6 years, the number of foreign tourists who have visited the Community of Madrid maintains a sustained growth, well above the rest of Spanish destinations.

The city of Madrid recorded in 2019 the arrival of 10.4 million visitors (+2.1% vs 2018), of which 55% were international and 45% national. 22.6 million overnight stays were generated (+5.7% vs 2018). The main international tourism source markets were the United States, Italy, France, the United Kingdom and Germany, and the fastest growing markets were the United States, China, Italy, Brazil and Mexico. A total expense of 10,451 million was reached (+12.6% vs 2018) and an average daily expense of 270 euros (+11% vs 2018).

The number of rooms in 5-star hotels in Madrid is growing, although it is still below that of other European capitals. This represents a business opportunity in a growth environment.

In the capital there are more than 5,100 rooms available in 5-star establishments compared to almost 22,000 in Paris or more than 18,000 in London. Most of the hotels in Madrid are 4-stars, therefore this is the segment with the highest competition.

1.2 2. The data

The following data sets will be used for this report:

• A dataset containing the districts and neighborhoods of Madrid will be used. This dataset will include the geographic coordinates of each district for subsequent location on maps and clusters. Madrid has 21 districts that, in addition, group a total of 131 administrative neighborhoods. This information will be obtained from Wikipedia (https://en.wikipedia.org/wiki/Districts_of_Madrid) and from official organizations such as (http://gestiona.madrid.org/iestadis/) and (http://gestiona.madrid.org/nomecalles/DescargaBDTCorte.icm#delimitacionesterritoriales)

• We will use Foursquare.com to obtain leisure venues that may be of interest to tourists, from each district and existing hotels. Crossing this information with the previous one of the districts we will be able to group the information obtained in clusters and we will be able to represent them on maps for a better understanding. In this way we will be able to determine the best location for the new hotel.

Scrapping Madrid Districts Table from Wikipedia

```
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     import pandas as pd
     import requests
     from bs4 import BeautifulSoup
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     res = requests.get(URL)
     scraped_data = BeautifulSoup(res.text, 'html.parser')
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Madrid">131 administrative wards</a>. Additional neighborhoods exist outside the
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District Number
Name
District area<sup class="reference" id="cite_ref-2"><a
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Population
Population density<br/>(Hab./Ha.)
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Location
Administrative wards
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11
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13
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14
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(143) <br/>
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16
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17
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href="/wiki/Santa_Eugenia_(Madrid)" title="Santa Eugenia (Madrid)">Santa
Eugenia</a> (182)<br/><a href="/wiki/Ensanche_de_Vallecas" title="Ensanche de
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(192) <br/><a href="/wiki/Valderrivas" title="Valderrivas">Valderrivas</a>
(193) < br/> <a href="/wiki/El_Ca%C3%B1averal" title="El CaÃśaveral">El
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20
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title="Amposta (Madrid)">Amposta</a> (203)<br/><a href="/wiki/Arcos_(Madrid)"
title="Arcos (Madrid)">Arcos</a> (204)<br/><a href="/wiki/Rosas_(Madrid)"
title="Rosas (Madrid)">Rosas</a> (205)<br/><a href="/wiki/Rejas"
title="Rejas">Rejas</a> (206)<br/><a href="/wiki/Canillejas"
title="Canillejas">Canillejas</a> (207)<br/><a href="/wiki/Salvador_(Madrid)"
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title="Aeropuerto (Madrid)">Aeropuerto</a> (212)<br/><a
href="/wiki/Casco_Hist%C3%B3rico_de_Barajas" title="Casco HistÃsrico de
Barajas">Casco HistÃşrico de Barajas</a> (213)<br/><a
href="/wiki/Tim%C3%B3n_(Madrid)" title="TimÃşn (Madrid)">TimÃşn</a> (214)<br/><a
href="/wiki/Corralejos" title="Corralejos">Corralejos</a> (215)<br/></small>
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title="Enlarge"></a></div><a href="/wiki/Bank_of_Spain" title="Bank of
Spain">Bank of Spain</a> building (foreground) and <a class="mw-redirect"
href="/wiki/Palacio_de_Comunicaciones" title="Palacio de Comunicaciones">Palacio
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de Comunicaciones</div></div> Contemporary Madrid came into its own after the death of general <a</p> href="/wiki/Francisco_Franco" title="Francisco Franco">Francisco Franco. Reaction against the dictatorial bureaucracy centered in Madrid, and a history of centralism that predated Franco by centuries has resulted in the successful modern movement towards increased <a class="mw-redirect"</pre> href="/wiki/Autonomous_entity" title="Autonomous entity">autonomy for the regions of Spain, considered autonomous regions under the umbrella of Spain. The modern metropolis is home to over three million people. <h3>Alonso MartÃnnez[edit]</h3> This area contains the large <a href="/wiki/Plaza_de_Col%C3%B3n" title="Plaza</p> de ColÃşn">Plaza de ColÃşn. This plaza commemorates Christopher Columbus, who was responsible for ushering in the Spanish imperial golden age of the 16th and 17th centuries. It is within walking distance of the main cultural and commercial areas of the city, such as the Prado museum, the expansive Parque del Buen Retiro and the business center on the lower part of the Paseo de la Castellana. <h3>Atocha[edit]</h3> Atocha covers a large area and is bordered by the Huertas and LavapiAI's neighbourhoods. It contains several notable cultural institutions, including the Reina SofÃŋa Museum. Also located here is the central bus terminal and the Atocha Railway Station, one of two main train stations in Madrid, the other being located in ChamartÃnn. This was the main site of the train bombings carried out on March 11, 2004. Atocha was also the site of the <a class="mw-redirect" href="/wiki/1977_Massacre_of_Atocha" title="1977 Massacre of

Atocha">1977 Massacre of Atocha.

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<h3><span id="AZCA_.2F_Nuevos_Ministerios"></span><span class="mw-headline"
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Torre_Picasso_-_01.jpg 1.5x, //upload.wikimedia.org/wikipedia/commons/thumb/3/37
/Torre_Picasso_-_01.jpg/440px-Torre_Picasso_-_01.jpg 2x" width="220"/></a> <div
class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:Torre_Picasso_-_01.jpg" title="Enlarge"></a></div>Torre
Picasso, designed by <a href="/wiki/Minoru_Yamasaki" title="Minoru
Yamasaki">Minoru Yamasaki</a></div></div>
Located in the Cuatro Caminos ward, <a href="/wiki/AZCA"</p>
title="AZCA">AZCA</a> is the financial center of Madrid. The area is populated
by skyscrapers, among them <a href="/wiki/Torre_Picasso" title="Torre
Picasso">Torre Picasso</a> at 157 metres (515Âăft), Edificio BBVA at 107 metres
(351Âăft) and <a class="mw-redirect" href="/wiki/Puerta_de_Europa" title="Puerta
de Europa">Torre Europa</a> at 115 metres (377Âăft). The skyscraper <a class="mw-
redirect" href="/wiki/Torre_Windsor" title="Torre Windsor">Torre Windsor</a>
once stood here as well, until it burned completely on the night of 12 February
2005. A large <a href="/wiki/El_Corte_Ingl%C3%A9s" title="El Corte InglÃIs">El
Corte InglAl's</a> department store consisting of three interconnected buildings
is also located here. The area is directly linked to <a class="mw-redirect"
href="/wiki/Barajas_Airport" title="Barajas Airport">Barajas Airport</a> by <a
href="/wiki/Madrid_Metro" title="Madrid Metro">metro</a> line 8 at the <i>Nuevos
Ministerios</i> station. It's the <a href="/wiki/Parkour"
title="Parkour">Parkour</a> centre of Madrid.
<h3><span class="mw-headline" id="Cuatro_Torres_Business_Area">Cuatro Torres
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href="/w/index.php?title=Districts_of_Madrid&action=edit&section=6"
title="Edit section: Cuatro Torres Business Area">edit</a><span class="mw-
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The <a href="/wiki/Cuatro_Torres_Business_Area" title="Cuatro Torres Business</p>
Area">Cuatro Torres Business Area</a> is composed of the four tallest
skyscrapers in Madrid. The tallest is <a class="mw-redirect"
href="/wiki/Torre_Bankia" title="Torre Bankia">Torre Bankia</a>, once known as
the Torre <a href="/wiki/Repsol" title="Repsol">Repsol</a>, at 250 metres
(820Âăft). It was designed by <a
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href="/wiki/Norman_Foster,_Baron_Foster_of_Thames_Bank" title="Norman Foster,
Baron Foster of Thames Bank">Sir Norman Foster</a>, and is the third tallest
skyscraper in Europe. <a class="mw-redirect"
href="/wiki/Torre_de_Cristal_(Madrid)" title="Torre de Cristal (Madrid)">Torre
de Cristal</a>, or 'Crystal Tower', is only 0.6 metres (2Âăft 0Âăin) lower than
Torre Bankia, at 249.4 metres (818Âăft), and was designed by <a class="mw-
redirect" href="/wiki/Cesar_Pelli" title="Cesar Pelli">Cesar Pelli</a>. <a
href="/wiki/Torre_PwC" title="Torre PwC">Torre PwC</a> is the third tallest in
Madrid, at 235 metres (771Âăft), and was designed by Enrique Alvarez & Damp; Carlos
Rubio. The fourth skyscraper is <a href="/wiki/Torre_Espacio" title="Torre
Espacio">Torre Espacio</a>, or 'Space Tower'. It is 223 metres (732Âăft) tall and
it was designed by I.M. Pei. < sup class="reference" id="cite_ref-
CTBA_Madrid_3-0"><a href="#cite_note-CTBA_Madrid-3">[2]</a></sup> The four
skyscrapers were finished in 2008.
<h3><span class="mw-headline" id="Chueca">Chueca</span><span class="mw-
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href="/w/index.php?title=Districts_of_Madrid&action=edit&section=7"
title="Edit section: Chueca">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
<a href="/wiki/Chueca" title="Chueca">Chueca</a> is well known as a <a
href="/wiki/Gay_village" title="Gay village">centre of gay culture</a> in
Madrid. <sup class="reference" id="cite_ref-
Let's_Go:_Spain_&_Portugal_4-0"><a href="#cite_note-
Let's_Go:_Spain_&_Portugal-4">[3]</a></sup>
<g\>
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href="/w/index.php?title=Districts_of_Madrid&action=edit&section=8"
title="Edit section: Las Cortes">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
This small area is notable for housing the <a class="mw-redirect"</p>
href="/wiki/Congress_of_Deputies_(Spain)" title="Congress of Deputies
(Spain)">Congress of Deputies</a>, known as the <i>Congreso de los
diputados</i>, the lower house of the Spanish parliament. Other notable sites
include the <a href="/wiki/Thyssen-Bornemisza_Museum" title="Thyssen-Bornemisza
Museum">Thyssen-Bornemisza Museum</a>, the <a class="mw-redirect"
href="/wiki/Banco_de_Espa%C3%B1a" title="Banco de EspaÃsa">Banco de EspaÃsa</a>,
the CafÃľ del CÃŋrculo de Bellas Artes, the Zarzuela Theater and the <a
href="/wiki/Plaza_de_Cibeles" title="Plaza de Cibeles">Plaza de Cibeles</a>.
<h3><span class="mw-headline" id="Huertas">Huertas</span><span class="mw-
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href="/w/index.php?title=Districts_of_Madrid&action=edit&section=9"
title="Edit section: Huertas">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
This neighbourhood, also known as Barrio de las Letras, is west of the Paseo
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del Prado and north of Calle Atocha. Once the home and popular hangout of
writers such as <a href="/wiki/Miguel_de_Cervantes" title="Miguel de
Cervantes">Miguel de Cervantes</a> and <a class="mw-redirect"
href="/wiki/Calderon_de_la_Barca" title="Calderon de la Barca">Calderon de la
Barca</a>, Huertas is now considered Madrid's literary neighbourhood.<sup
class="reference" id="cite_ref-Let's_Go:_Spain_&_Portugal_4-1"><a</pre>
href="#cite_note-Let's_Go:_Spain_&_Portugal-4">[3]</a></sup> One prominent
landmark is the house where Cervantes died in 1616. <sup class="reference"</pre>
id="cite_ref-5"><a href="#cite_note-5">[4]</a></sup> It is a popular nightlife
spot and tourist destination.
<h3><span id="Gran_V.C3.ADa"></span><span class="mw-headline" id="Gran_VÃŋa">Gran
VÃηa</span><span class="mw-editsection"><span class="mw-editsection-
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Alcala.jpg/440px-Croisement_Gan_Via-Alcala.jpg 2x" width="220"/></a> <div
class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:Croisement_Gan_Via-Alcala.jpg" title="Enlarge"></a></div>Gran
VÃna</div></div>
As the name implies, the Gran VÃηa area contains one of Madrid's most
important avenues, the <a class="mw-redirect"</pre>
href="/wiki/Gran_V%C3%ADa_(Madrid)" title="Gran VÃŋa (Madrid)">Gran VÃŋa</a>
(literally, "Great Way"). First and foremost it is a shopping street; however,
it also contains a number of tourist accommodations, plenty of nightlife
(including Madrid's large <a href="/wiki/Goth_subculture" title="Goth</pre>
subculture">goth scene</a>), many of Madrid's largest movie theaters and live
musical shows. It is also a hub for Madrid's <a href="/wiki/Red-light_district"
title="Red-light district">red-light district</a>, as it links many side
streets. One of these streets, calle Fuencarral, has become a link between the
old shopping area of the center of the city, the Bohemian MalasaÃáa, and the hip
Chueca district, making of it one of the most cosmopolitan areas of the city.
<h3><span id="Lavapi.C3.A9s"></span><span class="mw-headline"
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href="/w/index.php?title=Districts_of_Madrid&action=edit&section=11"
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title="Edit section: LavapiÃis">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
One of the poorer neighbourhoods near the city center, <a
href="/wiki/Lavapi%C3%A9s" title="LavapiÃ1s">LavapiÃ1s</a> has maintained much of
true 'MadrileÃso' spirit of the past. LavapiÃl's has a high concentration of
immigrants (mainly Chinese, Arabs, Hindi, Africans and Caribbeans), and also
tends to attract artists and writers, adding to the cosmopolitan mix. The
presence of immigrants has led to a variety of good, cheap shops and restaurants
of both local and international food. It's one of the best places to find
foreign herbs and spices. It is changing rapidly under the pressures of <a
href="/wiki/Gentrification" title="Gentrification">gentrification</a>.
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srcset="//upload.wikimedia.org/wikipedia/en/thumb/8/8d/Plaza_de-
Espa%C3%B1a_En_Madrid.jpg/330px-Plaza_de-Espa%C3%B1a_En_Madrid.jpg 1.5x,
//upload.wikimedia.org/wikipedia/en/thumb/8/8d/Plaza_de-
Espa%C3%B1a_En_Madrid.jpg/440px-Plaza_de-Espa%C3%B1a_En_Madrid.jpg 2x"
width="220"/></a> <div class="thumbcaption"><div class="magnify"><a
class="internal" href="/wiki/File:Plaza_de-Espa%C3%B1a_En_Madrid.jpg"
title="Enlarge"></a></div>Edificio EspaÃśa</div></div>
In and around <a href="/wiki/Barrio_de_La_Latina_(Madrid)" title="Barrio de"</p>
La Latina (Madrid)">La Latina</a> are the origins of Madrid. Its difficult to
put precise boundaries on La Latina, because, like its immediate neighbours,
streets are narrow and winding. There are quite a few nightlife spots, though
the neighbourhood is best known as having a concentration of <a
href="/wiki/Tapas" title="Tapas">tapas</a> bars (particularly on the Cava Baja
and Cava Alta). There are also a number of attractive churches, including the <a
href="/wiki/Church_of_San_Andr%C3%A9s_(Madrid)" title="Church of San AndrÃI's
(Madrid)">Church of San AndrÃI's</a> and the <a class="mw-redirect"
href="/wiki/San_Francisco_el_Grande_Basilica" title="San Francisco el Grande
Basilica">San Francisco el Grande Basilica</a>. On Sundays and major holidays,
the famous <a class="mw-redirect" href="/wiki/Rastro" title="Rastro">Rastro</a>
flea-market begins on the eastern edge, spilling out of the San Millan exit of
the La Latina metro stop to the Plaza de Cascorro and all the way to the Ronda
de Toledo to the south. Plaza de la Paja is another interesting location here.
On its other side, La Latina borders Plaza Mayor and another ancient part of the
town, <a href="/wiki/El_Madrid_de_los_Austrias" title="El Madrid de los
Austrias">El Madrid de los Austrias</a>, where you can find the beautiful <a
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class="mw-redirect" href="/wiki/Palacio_Real" title="Palacio Real">Palacio
Real</a> (Royal Palace).
<h3><span id="Malasa.C3.B1a"></span><span class="mw-headline"
id="MalasaÃśa">MalasaÃśa</span><span class="mw-editsection"><span class="mw-
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title="Edit section: MalasaÃśa">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
<a href="/wiki/Malasa%C3%B1a" title="MalasaÃśa">MalasaÃśa</a> is famous for
 ⇔its
nightlife, and for having been the main hub of the <a
href="/wiki/La_Movida_Madrile%C3%B1a" title="La Movida MadrileÃsa">movida</a>
countercultural movement in the 1970s and 1980s. Considerated very popular and
one of the bestÂt's MadridÂt's neighbourhoods with available pubs and bars during
night.
<h3><span id=".C3.93pera"></span><span class="mw-headline"
id="ASpera">ASpera</span><span class="mw-editsection"><span
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bracket">[</span><a
href="/w/index.php?title=Districts_of_Madrid&action=edit&section=14"
title="Edit section: ÃSpera">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
As the name implies, this area around the <a
href="/wiki/%C3%93pera_(Madrid_Metro)" title="ÃŞpera (Madrid Metro)">ÃŞpera metro
stop</a> is the location of Madrid's main Opera Theatre, the <a
href="/wiki/Teatro_Real" title="Teatro Real">Teatro Real</a> (Royal Theatre). In
front of the theatre is the <a class="mw-redirect"
href="/wiki/Palacio_Real_de_Madrid" title="Palacio Real de Madrid">Palacio Real
de Madrid</a>, or Royal Palace. The Royal Palace is no longer used as a
residence, but it has been kept intact, serving as a cultural monument that is
occasionally used for state functions. It's one of largest palaces in Europe,
surpassing even the Versailles Palace.
<h3><span class="mw-headline" id="Retiro">Retiro</span><span class="mw-
editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Districts_of_Madrid&action=edit&section=15"
title="Edit section: Retiro">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
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class="image" href="/wiki/File:Retiropark.jpg"><img alt="" class="thumbimage"</pre>
data-file-height="592" data-file-width="800" decoding="async" height="163"
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ropark.jpg/330px-Retiropark.jpg 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/6/66/Retiropark.jpg/440px-
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Retiropark.jpg 2x" width="220"/></a> <div class="thumbcaption"><div
class="magnify"><a class="internal" href="/wiki/File:Retiropark.jpg"</pre>
title="Enlarge"></a></div>Parque del buen Retiro</div></div></div>
Sarrio Retiro is a classic neighbourhood surrounding the famous <a class="mw-
redirect" href="/wiki/Buen_Retiro_Park" title="Buen Retiro Park">Buen Retiro
Park</a>, to the east of the center of the city. It is demographically the
oldest neighbourhood in the city, but over the past five years the increasing
number of flats for rent has been attracting young people and students to the
area in growing numbers. The neighbourhood can be characterized by the style of
its three most important areas. In the north, centering on Calle Ibiza, streets
are in a grid pattern and buildings, normally 6-10 storeys, are packed closely
together, creating a bustling atmosphere of small shops, bars, and restaurants.
This area is very similar to the neighbouring Salamanca district. In the south,
called NiÃso Jesus, the area is quieter, more spacious, and residential. In the
west, the Jerasnimos area, with its beautiful 18th and 19th century buildings and
many museums (including the <a href="/wiki/Museo_del_Prado" title="Museo del
Prado">Museo del Prado</a>), has few private residences, its large flats that
often surpass 200 mš (2,150 sq ft) being mainly used for offices.
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<h3>Hortaleza[edit]</h3></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan>

A residential district in the north, Hortaleza includes the headquarters of
the <a href="/wiki/Spanish_Olympic_Committee" title="Spanish Olympic
Committee">Spanish Olympic Committee, the <a href="/wiki/IFEMA"
title="IFEMA">IFEMA (Madrid's main trade fair centre) and Juan Carlos I
Park, a park between Campo de las Naciones (commercial district) and
Barajas. Mar de Cristal is a tube station in Hortaleza district with an airport
connection.

<h3>Vallecas[<a
href="/w/index.php?title=Districts_of_Madrid&action=edit&section=17"
title="Edit section: Vallecas">edit]</h3>

Vallecas is a working-class residential neighbourhood in the south of Madrid. It is also home to the Rayo Vallecano football team.

<h3>Aravaca[<a
href="/w/index.php?title=Districts_of_Madrid&action=edit&section=18"
title="Edit section: Aravaca">edit<span class="mw-editsection-</pre>

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bracket">]</span></span></h3>
<a href="/wiki/Aravaca" title="Aravaca">Aravaca</a> is an upper-class
residential suburb in the northwest of Madrid. During the <a
href="/wiki/Spanish_Civil_War" title="Spanish Civil War">Spanish Civil War</a>
the front was stabilized here for almost three years. Aravaca and its
surroundings include parkland and wooded areas such as <a
href="/wiki/Casa_de_Campo" title="Casa de Campo">Casa de Campo</a>.
<h2><span class="mw-headline" id="Notes">Notes</span><span class="mw-
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href="/w/index.php?title=Districts_of_Madrid&action=edit&section=19"
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(Madrid)">Gaztambide</a>
<a href="/wiki/R%C3%ADos_Rosas_(Madrid)" title="RÃŋos Rosas (Madrid)">RÃŋos</a>
Rosas</a>
<a href="/wiki/Trafalgar_(Madrid)" title="Trafalgar"
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<a href="/wiki/Concepci%C3%B3n_(Madrid)" title="ConcepciÃşn" | ConcepciÃşn | ConcepciÃxn | Conce
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(Madrid)">ConcepciÃşn</a>
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<a href="/wiki/Quintana_(Madrid)" title="Quintana"
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<a href="/wiki/San_Juan_Bautista_(Madrid)" title="San Juan Bautista"</li>
(Madrid)">San Juan Bautista</a>
<a href="/wiki/San_Pascual_(Madrid)" title="San Pascual (Madrid)">San</a>
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<a href="/wiki/El_Pardo" title="El Pardo">El Pardo</a>
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title="Fuentelarreina">Fuentelarreina</a>
<a href="/wiki/La_Paz_(Madrid)" title="La Paz (Madrid)">La Paz</a>
<a href="/wiki/Mirasierra" title="Mirasierra">Mirasierra</a>
<a href="/wiki/Pe%C3%B1agrande" title="PeÃśagrande">PeÃśagrande</a>
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(Madrid)">Valverde</a>
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<a href="/wiki/Palomas_(Madrid)" title="Palomas (Madrid)">Palomas</a>
<a href="/wiki/Pinar_del_Rey_(Madrid)" title="Pinar del Rey (Madrid)">Pinar
del Rey</a>
<a href="/wiki/Piovera_(Madrid)" title="Piovera (Madrid)">Piovera</a>
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<a href="/wiki/Cuatro_Vientos" title="Cuatro Vientos">Cuatro</a>
Vientos</a>
<a href="/wiki/Las_%C3%81guilas" title="Las ÃAguilas">Las ÃAguilas</a>
<a href="/wiki/Lucero_(Madrid)" title="Lucero (Madrid)">Lucero</a>
<a href="/wiki/Los_C%C3%A1rmenes" title="Los CÃarmenes">Los CÃarmenes</a></
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<a href="/wiki/Casa_de_Campo" title="Casa de Campo">Casa de Campo</a>
<a href="/wiki/Ciudad_Universitaria_(Madrid)" title="Ciudad Universitaria</pre>
(Madrid)">Ciudad Universitaria</a>
<a href="/wiki/El_Plant%C3%ADo" title="El PlantÃηo">El PlantÃηo</a>
<a href="/wiki/Valdemar%C3%ADn" title="ValdemarÃŋn">ValdemarÃŋn</a>
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Bajas</a>
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<a href="/wiki/Canillejas" title="Canillejas">Canillejas</a>
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<a href="/wiki/Hell%C3%ADn_(Madrid)" title="HellÃŋn (Madrid)">HellÃŋn</a></
 →li>
<a href="/wiki/Rejas" title="Rejas">Rejas</a>
<a href="/wiki/Rosas_(Madrid)" title="Rosas (Madrid)">Rosas</a>
<a href="/wiki/Salvador_(Madrid)" title="Salvador"
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<a href="/wiki/Berruguete_(Madrid)" title="Berruguete">
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(Madrid)">Castillejos</a>
<a href="/wiki/Cuatro_Caminos_(Madrid)" title="Cuatro Caminos"</li>
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<a href="/wiki/Orcasitas" title="Orcasitas">Orcasitas</a>
<a href="/wiki/Orcasur" title="Orcasur">Orcasur</a>
<a href="/wiki/Pradolongo" title="Pradolongo">Pradolongo</a>
<a href="/wiki/San_Ferm%C3%ADn_(Madrid)" title="San FermÃŋn (Madrid)">San</a>
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<a href="/wiki/Casco Hist%C3%B3rico de Vic%C3%A11varo" title="Casco</pre>
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<a href="/wiki/Los_Rosales_(Madrid)" title="Los Rosales (Madrid)">Los</a>
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Parsed by mw1269
Cached time: 20200418184349
Cache expiry: 2592000
Dynamic content: false
Complications: [varyāĂŘrevisionâĂŘsha1]
CPU time usage: 0.548 seconds
Real time usage: 3.145 seconds
Preprocessor visited node count: 1709/1000000
PostâĂŘexpand include size: 54208/2097152 bytes
Template argument size: 604/2097152 bytes
Highest expansion depth: 15/40
Expensive parser function count: 1/500
Unstrip recursion depth: 1/20
Unstrip postâĂŘexpand size: 15785/5000000 bytes
Number of Wikibase entities loaded: 1/400
Lua time usage: 0.269/10.000 seconds
Lua memory usage: 5.6 MB/50 MB
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Transclusion expansion time report (%, ms, calls, template)
100.00% 2812.082 1 -total
 39.98% 1124.178
                    1 Template:Short_description
 37.87% 1064.801
                    1 Template:Pagetype
```

```
28.23% 793.748
                    66 Template: Nts
 16.03% 450.811
                     2 Template:Reflist
 13.17% 370.297
                     1 Template:Citation
  9.00% 253.133
                     1 Template:Original_research
  8.31% 233.654
                     1 Template: Ambox
  2.15% 60.377
                     8 Template:Convert
  2.05%
         57.579
                     1 Template:Commonscat-inline
-->
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and timestamp 20200418184346 and revision id 932631329
 -->
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style="border: none; position: absolute;" title="" width="1"/></noscript></div>
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edia.org/w/index.php?title=Districts_of_Madrid&oldid=932631329</a>"</div>
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href="/wiki/Category:Articles_with_short_description" title="Category:Articles
with short description">Articles with short description</a><a href="/wi
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title="Category: Articles that may contain original research from March
2014">Articles that may contain original research from March 2014</a><a
href="/wiki/Category:All_articles_that_may_contain_original_research"
title="Category:All articles that may contain original research">All articles
that may contain original research</a><a
href="/wiki/Category:Commons_category_link_from_Wikidata"
title="Category:Commons category link from Wikidata">Commons category link from
Wikidata</a></div></div>
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</div>
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<div class="read-more-container"></div>
</div>
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[n]">Talk</a>id="pt-anoncontribs"><a accesskey="y"
href="/wiki/Special:MyContributions" title="A list of edits made from this IP
address [y]">Contributions</a>id="pt-createaccount"><a
href="/w/index.php?title=Special:CreateAccount&returnto=Districts+of+Madrid"
title="You are encouraged to create an account and log in; however, it is not
mandatory">Create account</a>id="pt-login"><a accesskey="o"
href="/w/index.php?title=Special:UserLogin&returnto=Districts+of+Madrid"
title="You're encouraged to log in; however, it's not mandatory. [o]">Log
in</a>
</div>
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<h3 id="p-namespaces-label">Namespaces</h3>
<l
<a accesskey="c"</pre>
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[c]">Article</a>id="ca-talk"><a accesskey="t"
href="/wiki/Talk:Districts_of_Madrid" rel="discussion" title="Discuss
improvements to the content page [t]">Talk</a>
</div>
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type="checkbox"/>
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<span>Variants
</h3>
</div>
</div>
<div id="right-navigation">
<div aria-labelledby="p-views-label" class="vectorTabs" id="p-views"</pre>
role="navigation">
<h3 id="p-views-label">Views</h3>
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href="/wiki/Districts_of_Madrid">Read</a><li class="collapsible" id="ca-
edit"><a accesskey="e"
href="/w/index.php?title=Districts_of_Madrid&action=edit" title="Edit this
```

```
page [e]">Edit</a><a accesskey="h"
href="/w/index.php?title=Districts of Madrid&action=history" title="Past
revisions of this page [h]">View history</a>
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<span>More</span>
</h3>
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</div>
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Wikipedia" title="Search Wikipedia [f]" type="search"/>
<input name="title" type="hidden" value="Special:Search"/>
<input class="searchButton mw-fallbackSearchButton" id="mw-searchButton"</pre>
name="fulltext" title="Search Wikipedia for this text" type="submit"
value="Search"/>
<input class="searchButton" id="searchButton" name="go" title="Go to a page with</pre>
this exact name if it exists" type="submit" value="Go"/>
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</form>
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</div>
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               Navigation
       </h3>
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title="Visit the main page [z]">Main page</a><a
href="/wiki/Wikipedia:Contents" title="Guides to browsing
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events">Current events</a><a accesskey="x"
href="/wiki/Special:Random" title="Load a random article [x]">Random
article</a><a href="https://donate.wikimedia.org/wik
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campaign=C13_en.wikipedia.org&uselang=en" title="Support us">Donate to
Wikipedia</a><a href="//shop.wikimedia.org"
title="Visit the Wikipedia store">Wikipedia store</a>
</div>
</div>
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              Interaction
       </h3>
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and edit Wikipedia">Help</a>id="n-aboutsite"><a
href="/wiki/Wikipedia:About" title="Find out about Wikipedia">About
Wikipedia</a>id="n-portal"><a href="/wiki/Wikipedia:Community_portal"
title="About the project, what you can do, where to find things">Community
portal</a><a accesskey="r"
href="/wiki/Special:RecentChanges" title="A list of recent changes in the wiki
[r]">Recent changes</a>id="n-contactpage"><a
href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to contact
Wikipedia">Contact page</a>
</div>
</div>
<div aria-labelledby="p-tb-label" class="portal" id="p-tb" role="navigation">
<h3 id="p-tb-label">
              Tools
       </h3>
<div class="body">
id="t-whatlinkshere"><a accesskey="j"</li>
href="/wiki/Special:WhatLinksHere/Districts_of_Madrid" title="List of all
English Wikipedia pages containing links to this page [j]">What links
here</a>id="t-recentchangeslinked"><a accesskey="k"
href="/wiki/Special:RecentChangesLinked/Districts_of_Madrid" rel="nofollow"
title="Recent changes in pages linked from this page [k]">Related
changes</a><a accesskey="u"
href="/wiki/Wikipedia:File_Upload_Wizard" title="Upload files [u]">Upload
file</a><a accesskey="q"
href="/wiki/Special:SpecialPages" title="A list of all special pages
[q]">Special pages</a>id="t-permalink"><a
```

```
href="/w/index.php?title=Districts_of_Madrid&oldid=932631329"
title="Permanent link to this revision of the page">Permanent link</a><li
id="t-info"><a href="/w/index.php?title=Districts_of_Madrid&amp;action=info"
title="More information about this page">Page information</a><li
id="t-wikibase"><a accesskey="g"
href="https://www.wikidata.org/wiki/Special:EntityPage/Q3032114" title="Link to
connected data repository item [g]">Wikidata item</a><a hre
f="/w/index.php?title=Special:CiteThisPage&page=Districts_of_Madrid&id=9
32631329& wpFormIdentifier=titleform" title="Information on how to cite this
page">Cite this page</a>
</div>
</div>
<div aria-labelledby="p-wikibase-otherprojects-label" class="portal"</pre>
id="p-wikibase-otherprojects" role="navigation">
<h3 id="p-wikibase-otherprojects-label">
               In other projects
       </h3>
<div class="body">
class="wb-otherproject-link wb-otherproject-commons"><a</li>
href="https://commons.wikimedia.org/wiki/Category:Districts_of_Madrid"
hreflang="en">Wikimedia Commons</a>
</div>
</div>
<div aria-labelledby="p-coll-print_export-label" class="portal" id="p-coll-</pre>
print_export" role="navigation">
<h3 id="p-coll-print_export-label">
               Print/export
        </h3>
<div class="body">
id="coll-create_a_book"><a href="/w/index.php?title=Special:Book&amp;boo
kcmd=book_creator&referer=Districts+of+Madrid">Create a book</a>
id="coll-download-as-rl"><a href="/w/index.php?title=Special:ElectronPdf&amp;pag
e=Districts+of+Madrid&action=show-download-screen">Download as
PDF</a>id="t-print"><a accesskey="p"
href="/w/index.php?title=Districts_of_Madrid&printable=yes" title="Printable
version of this page [p]">Printable version</a>
</div>
</div>
<div aria-labelledby="p-lang-label" class="portal" id="p-lang"</pre>
role="navigation">
<h3 id="p-lang-label">
               Languages
       </h3>
<div class="body">
class="interlanguage-link interwiki-an"><a class="interlanguage-link-
target" href="https://an.wikipedia.org/wiki/Districtos_de_Madrit" hreflang="an"
lang="an" title="Districtos de Madrit âĂŞ Aragonese">AragonÃl's</a><li
```

```
class="interlanguage-link interwiki-es"><a class="interlanguage-link-target"
href="https://es.wikipedia.org/wiki/Anexo:Distritos de Madrid" hreflang="es"
lang="es" title="Anexo:Distritos de Madrid âĂŞ Spanish">EspaÃśol</a>
class="interlanguage-link interwiki-fr"><a class="interlanguage-link-target"</pre>
href="https://fr.wikipedia.org/wiki/Districts_de_Madrid" hreflang="fr" lang="fr"
title="Districts de Madrid âĂŞ French">FranÃğais</a><li
 ⇔class="interlanguage-
link interwiki-ko"><a class="interlanguage-link-target" href="https://ko.wikiped
ia.org/wiki/%EB%A7%88%EB%93%9C%EB%A6%AC%EB%93%9C%EC%9D%98_%EA%B5%AC"
hreflang="ko" lang="ko" title="eğĹëŞIJëeňëŞIJÌİŸ êţň âĂŞ Korean">íŢIJêţŋìŰť</a></
 نا><اi
class="interlanguage-link interwiki-ja"><a class="interlanguage-link-target" hre
f="https://ja.wikipedia.org/wiki/%E3%83%9E%E3%83%89%E3%83%AA%E3%83%BC%E3%83%89%E
3%81%AE%E8%A1%8C%E6%94%BF%E5%8C%BA" hreflang="ja" lang="ja"<sub>\_</sub>
 →title="ãČđãČĽãČłãČijãČĽãĄőèąŇæŤ£åŇž âĂŞ
Japanese">æÜĕæIJňèłđ</a><a
class="interlanguage-link-target"
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title="Madrids distrikter âĂŞ Norwegian BokmÃĕ1">Norsk bokmÃĕ1</a>
class="interlanguage-link interwiki-pt"><a class="interlanguage-link-target"</pre>
href="https://pt.wikipedia.org/wiki/Distritos_municipais_de_Madrid"
hreflang="pt" lang="pt" title="Distritos municipais de Madrid âĂŞ
Portuguese">PortuguÃłs</a><a
class="interlanguage-link-target" href="https://ru.wikipedia.org/wiki/%D0%90%D0%
B4%D0%BC%D0%B8%D0%BD%D0%B8%D1%81%D1%82%D1%80%D0%B0%D1%82%D0%B8%D0%B2%D0%BD%D0%BE
%D0%B5_%D0%B4%D0%B5%D0%BB%D0%B5%D0%BD%D0%B8%D0%B5_%D0%B3%D0%BE%D1%80%D0%BE%D0%B4
%D0%B0_%D0%9C%D0%B0%D0%B4%D1%80%D0%B8%D0%B4%D0%B0" hreflang="ru" lang="ru"
title="ĐŘĐťĐijĐÿĐ;ĐÿÑĄÑĆÑĂĐřÑĆĐÿĐšĐ;Đ;Đţ ĐťĐţĐżĐţĐ;ĐÿĐţ ĐạĐ;ÑĂĐ;ĐťĐřu
 →ĐIJĐřĐťÑĂĐÿĐťĐř âĂŞ Russian">ĐăÑČÑĄÑĄĐžĐÿĐź</a><li
class="interlanguage-link interwiki-tr"><a class="interlanguage-link-target"</pre>
href="https://tr.wikipedia.org/wiki/Madrid%E2%80%99in_il%C3%A7eleri_listesi"
hreflang="tr" lang="tr" title="MadridâĂŹin ilÃğeleri listesi âĂŞ
Turkish">TÃijrkÃğe</a><a
class="interlanguage-link-target"
href="https://diq.wikipedia.org/wiki/Lista_qezan%C3%AA_Madridi" hreflang="diq"
lang="diq" title="Lista qezanÃł Madridi âÃŞ Zazaki">Zazaki</a>
<div class="after-portlet after-portlet-lang"><span class="wb-langlinks-edit wb-</pre>
langlinks-link"><a class="wbc-editpage"</pre>
href="https://www.wikidata.org/wiki/Special:EntityPage/Q3032114#sitelinks-
wikipedia" title="Edit interlanguage links">Edit links</a></span></div>
</div>
</div>
</div>
</div>
<div id="footer" role="contentinfo">
id="footer-info-lastmod"> This page was last edited on 27 December 2019, at
```

```
07:38<span class="anonymous-show">Âă(UTC)</span>.
Text is available under the <a</pre>
href="//en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-
ShareAlike_3.0_Unported_License" rel="license">Creative Commons Attribution-
ShareAlike License</a><a href="//creativecommons.org/licenses/by-sa/3.0/"
rel="license" style="display:none;"></a>;
additional terms may apply. By using this site, you agree to the <a
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href="//foundation.wikimedia.org/wiki/Privacy_policy">Privacy Policy</a>.
WikipediaÂő is a registered trademark of the <a
href="//www.wikimediafoundation.org/">Wikimedia Foundation, Inc.</a>, a non-
profit organization.
<a class="extiw"</pre>
href="https://foundation.wikimedia.org/wiki/Privacy_policy" title="wmf:Privacy
policy">Privacy policy</a>
<a href="/wiki/Wikipedia:About"</pre>
title="Wikipedia:About">About Wikipedia</a>
id="footer-places-disclaimer"><a href="/wiki/Wikipedia:General_disclaimer"</pre>
title="Wikipedia:General disclaimer">Disclaimers</a>
<a</pre>
href="//en.wikipedia.org/wiki/Wikipedia:Contact_us">Contact_Wikipedia</a>
id="footer-places-developers"><a href="https://www.mediawiki.org/wiki/Specia">
l:MyLanguage/How_to_contribute">Developers</a>
<a</pre>
href="https://stats.wikimedia.org/#/en.wikipedia.org">Statistics</a>
<a</pre>
href="https://foundation.wikimedia.org/wiki/Cookie_statement">Cookie
statement</a>
id="footer-places-mobileview"><a class="noprint stopMobileRedirectToggle" hr</pre>
ef="//en.m.wikipedia.org/w/index.php?title=Districts_of_Madrid&mobileaction=
toggle_view_mobile">Mobile view</a>
id="footer-copyrightico"><a href="https://wikimediafoundation.org/"><img</pre>
alt="Wikimedia Foundation" height="31" src="/static/images/wikimedia-button.png"
srcset="/static/images/wikimedia-button-1.5x.png 1.5x, /static/images/wikimedia-
button-2x.png 2x'' width="88"/></a>
id="footer-poweredbyico"><a href="https://www.mediawiki.org/"><img</pre>
alt="Powered by MediaWiki" height="31"
src="/static/images/poweredby_mediawiki_88x31.png"
srcset="/static/images/poweredby_mediawiki_132x47.png 1.5x,
/static/images/poweredby_mediawiki_176x62.png 2x" width="88"/></a>
<div style="clear: both;"></div>
</div>
```

```
709, "limit": 1000000}, "postexpandincludesize": {"value": 54208, "limit": 2097152}, "te
     mplateargumentsize":{"value":604,"limit":2097152},"expansiondepth":{"value":15,"
     limit":40}, "expensivefunctioncount": {"value":1, "limit":500}, "unstrip-
     depth":{"value":1,"limit":20},"unstrip-size":{"value":15785,"limit":5000000},"en
     tityaccesscount":{"value":1,"limit":400},"timingprofile":["100.00% 2812.082
     1 -total"," 39.98% 1124.178
                                      1 Template:Short_description"," 37.87% 1064.801
     1 Template:Pagetype"," 28.23% 793.748
                                                 66 Template: Nts", " 16.03% 450.811
     2 Template:Reflist"," 13.17% 370.297
                                                 1 Template:Citation"," 9.00%
     253.133
                  1 Template:Original_research"," 8.31% 233.654
                                             8 Template:Convert","
     Template:Ambox"," 2.15%
                                60.377
                                                                    2.05%
     1 Template:Commonscat-inline"]}, "scribunto":{"limitreport-
     timeusage":{"value":"0.269","limit":"10.000"},"limitreport-memusage":{"value":58
     71244, "limit": 52428800}}, "cachereport": {"origin": "mw1269", "timestamp": "202004181
     84349","ttl":2592000,"transientcontent":false}}});});</script>
     <script type="application/ld+json">{"@context":"https:\/\/schema.org","@type":"A
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     stricts_of_Madrid", "sameAs": "http:\/\/www.wikidata.org\/entity\/Q3032114", "mainE
     ntity":"http:\/\/www.wikidata.org\/entity\/Q3032114","author":{"@type":"Organiza
     tion", "name": "Contributors to Wikimedia
     projects"}, "publisher": {"@type": "Organization", "name": "Wikimedia Foundation, Inc
     .","logo":{"@type":"ImageObject","url":"https:\/\/www.wikimedia.org\/static\/ima
     ges\/wmf-hor-googpub.png"}}, "datePublished": "2007-03-19T20:55:43Z", "dateModified
     ":"2019-12-27T07:38:59Z", "headline": "21 administrative units of
    Madrid"}</script>
     <script>(RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgBackendResponseTi
     me":98, "wgHostname": "mw1349"});});</script></body></html>
    Cleaning scraped_data
[3]: data_rows = scraped_data.select('.wikitable tr')
[4]: data_header = data_rows[0]
     data_content = data_rows[1:]
[5]: data_columns = []
     for column in data_header.select('th'):
         column_name = column.getText()
         data_columns.append(column_name.replace('\n', ''))
     data columns
[5]: ['District Number',
      'Name',
      'District area[n 1] (Ha.)',
```

<script>(RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgPageParseReport":
{"limitreport":{"cputime":"0.548","walltime":"3.145","ppvisitednodes":{"value":1

```
'Population',
       'Population density(Hab./Ha.)',
       'Location',
       'Administrative wards']
 [6]: final_data = []
      for row in data_content:
          data row = []
          for data in row.select('td'):
              data_row.append(data.getText().replace('\n', ''))
          final_data.append(data_row)
     Creating Pandas DataFrame with districts
[26]: MadridDF = pd.DataFrame(data=final_data, columns=data_columns)
      MadridDF.head()
[26]:
        District Number
                               Name District area[n 1] (Ha.) Population \
      0
                      1
                             Centro
                                                       522.82
                                                                  131,928
                      2
                        Arganzuela
                                                       646.22
                                                                  151,965
      1
      2
                      3
                             Retiro
                                                       546.62
                                                                 118,516
      3
                      4
                          Salamanca
                                                       539.24
                                                                 143,800
                      5
                          ChamartÃnn
                                                        917.55
                                                                  143,424
        Population density(Hab./Ha.) Location \
                              252.34
      0
      1
                              235.16
      2
                              216.82
      3
                              266.67
                              156.31
                                       Administrative wards
      O Palacio (11) Embajadores (12) Cortes (13) Justici...
      1 Imperial (21) Acacias (22) Chopera (23) Legazpi (...
        PacÃnfico (31)Adelfas (32)Estrella (33)Ibiza (...
      3 Recoletos (41)Goya (42)Fuente del Berro (43)Gu...
      4 El Viso (51)Prosperidad (52)Ciudad JardÃnn (53)...
[27]: MadridDF.shape
[27]: (22, 7)
[28]: MadridDF.tail()
[28]:
         District Number
                                          Name District area[n 1] (Ha.) Population \
                      18
                            Villa de Vallecas
                                                                5,146.72
                                                                            104,421
      17
```

```
VicÃalvaro
      18
                       19
                                                                 3,526.67
                                                                               70,051
      19
                       20 San Blas-Canillejas
                                                                2,229.24
                                                                             154,357
                                       Barajas
                                                                4,192.28
                                                                              46,876
      20
                       21
                                          None
      21
                    None
                                                                    None
                                                                                None
         Population density(Hab./Ha.) Location \
      17
                                 19.86
      18
                                 19.86
      19
                                 69.24
      20
                                 11.18
      21
                                  None
                                           None
                                        Administrative wards
          Casco HistÃşrico de Vallecas (181)Santa Eugenia...
      17
          Casco HistÃşrico de VicÃalvaro (191)Valdebernard...
      18
          Simancas (201)HellÃnn (202)Amposta (203)Arcos (...
      19
          Alameda de Osuna (211) Aeropuerto (212) Casco Hi...
      20
      21
                                                         None
[29]: MadridDF = MadridDF.drop(['Location', 'Administrative wards'], axis=1)
[31]: MadridDF = MadridDF.drop([21], axis=0)
      MadridDF.tail()
[31]:
         District Number
                                          Name District area[n 1] (Ha.) Population \
                                                                2,018.76
      16
                       17
                                    Villaverde
                                                                             142,608
                             Villa de Vallecas
      17
                                                                5,146.72
                                                                             104,421
                       18
      18
                      19
                                     VicÃalvaro
                                                                 3,526.67
                                                                               70,051
      19
                       20 San Blas-Canillejas
                                                                2,229.24
                                                                             154,357
                                                                4,192.28
      20
                       21
                                       Barajas
                                                                              46,876
         Population density(Hab./Ha.)
                                 70.64
      16
                                 19.86
      17
      18
                                 19.86
      19
                                 69.24
      20
                                 11.18
     Creating Pandas Dataframe with coordinates
[69]: coordinates = pd.read_csv('/Users/jgonzalez/Desktop/projects/
       \rightarrow Peer-graded-Assignment-Capstone-Project---The-Battle-of-Neighborhoods-/Data/
       →CALLEJERO_VIGENTE_DISTRITOS_201809.csv')
[70]: coordinates
```

```
[70]:
          district Number
                             Latitude Longitude
                            40.415347
                                        -3.707371
      0
                         1
      1
                         2
                            40.402733
                                        -3.695403
      2
                         3
                            40.408072
                                       -3.676729
                                       -3.679750
      3
                            40.429722
      4
                         5
                            40.462059
                                        -3.676600
      5
                            40.459751
                                        -3.697500
                            40.434040
      6
                         7
                                        -3.703790
      7
                            40.478611
                                       -3.709722
                         8
                            40.435151
      8
                         9
                                        -3.718765
      9
                            40.411360
                                       -3.708417
                        10
      10
                            40.383670
                                        -3.727990
                        11
                                       -3.706944
                        12 40.381389
      11
      12
                            40.398204
                                       -3.669059
                        13
      13
                            40.409869
                        14
                                        -3.644436
      14
                        15
                            40.445049
                                       -3.651320
      15
                        16
                            40.469457
                                       -3.640482
      16
                            40.349998
                                       -3.701143
                        17
      17
                            40.379597
                                       -3.621347
                        18
      18
                        19 40.404200
                                       -3.608060
      19
                            40.426001
                        20
                                        -3.612764
      20
                        21
                            40.470278
                                        -3.585000
[71]: Final_MadridDF = pd.concat([MadridDF,coordinates], axis=1, sort=False)
      Final_MadridDF = Final_MadridDF.drop(['district Number'], axis=1)
[72]: Final_MadridDF
                                           Name District area[n 1] (Ha.) Population \
[72]:
         District Number
      0
                                         Centro
                                                                    522.82
                                                                              131,928
                        2
                                     Arganzuela
                                                                    646.22
                                                                              151,965
      1
      2
                        3
                                         Retiro
                                                                    546.62
                                                                              118,516
      3
                        4
                                      Salamanca
                                                                    539.24
                                                                              143,800
                        5
                                      ChamartÃŋn
      4
                                                                     917.55
                                                                               143,424
      5
                        6
                                         TetuÃan
                                                                     537.47
                                                                               153,789
                        7
      6
                                       ChamberÃn
                                                                     467.92
                                                                               137,401
      7
                           Fuencarral-El Pardo
                        8
                                                                23,783.84
                                                                              238,756
      8
                        9
                               Moncloa-Aravaca
                                                                 4,653.11
                                                                              116,903
      9
                       10
                                         Latina
                                                                 2,542.72
                                                                              233,808
      10
                                    Carabanchel
                                                                  1,404.83
                                                                              243,998
                       11
      11
                       12
                                          Usera
                                                                    777.77
                                                                              134,791
                            Puente de Vallecas
      12
                       13
                                                                  1,496.86
                                                                              227,595
      13
                       14
                                      Moratalaz
                                                                    610.32
                                                                               94,197
      14
                       15
                                 Ciudad Lineal
                                                                  1,142.57
                                                                              212,529
      15
                                      Hortaleza
                                                                  2,741.98
                       16
                                                                              180,462
      16
                       17
                                     Villaverde
                                                                 2,018.76
                                                                              142,608
      17
                       18
                             Villa de Vallecas
                                                                 5,146.72
                                                                              104,421
```

```
VicÃalvaro
18
               19
                                                        3,526.67
                                                                     70,051
19
               20 San Blas-Canillejas
                                                       2,229.24
                                                                   154,357
20
               21
                               Barajas
                                                       4,192.28
                                                                    46,876
  Population density(Hab./Ha.)
                                 Latitude Longitude
0
                        252.34
                                40.415347
                                           -3.707371
                        235.16
                                40.402733 -3.695403
1
2
                        216.82
                                40.408072 -3.676729
3
                        266.67
                                40.429722 -3.679750
4
                        156.31
                                40.462059 -3.676600
5
                        286.13 40.459751 -3.697500
6
                        293.64 40.434040 -3.703790
7
                         10.04 40.478611 -3.709722
8
                         25.12 40.435151 -3.718765
9
                         91.95 40.411360 -3.708417
10
                        173.68 40.383670 -3.727990
11
                        173.30
                                40.381389 -3.706944
12
                        152.05
                                40.398204 -3.669059
13
                        154.34 40.409869 -3.644436
14
                        186.01
                                40.445049 -3.651320
15
                         65.81
                                40.469457 -3.640482
16
                         70.64
                               40.349998 -3.701143
17
                         19.86 40.379597 -3.621347
18
                         19.86
                                40.404200 -3.608060
19
                         69.24
                                40.426001 -3.612764
20
                         11.18
                               40.470278 -3.585000
```

Map of Madrid with districts superimposed on top.

```
[73]: import folium

[74]: # Coordinates od Madrid
latitude = 40.418889
longitude = -3.691944

# create map of New York using latitude and longitude values
map_madrid = folium.Map(location=[latitude, longitude], zoom_start=10)

# add markers to map
for lat, lng, district in zip(Final_MadridDF['Latitude'],

--Final_MadridDF['Longitude'], Final_MadridDF['Name']):
label = '{}'.format(district)
label = folium.Popup(label, parse_html=True)
folium.CircleMarker(
        [lat, lng],
        radius=5,
        popup=label,
```

```
color='blue',
  fill=True,
  fill_color='#3186cc',
  fill_opacity=0.7,
  parse_html=False).add_to(map_madrid)

map_madrid
```

[74]: <folium.folium.Map at 0x23cdcd17688>

1.3 3.Methodology

Define Foursquare Credentials

```
[75]: CLIENT_ID = 'PKOBLYCFF1NEKHLDPTGWIJKRMGJENMPWPL4WEEZAKZZKL2L1' # your Foursquare_

→ ID

CLIENT_SECRET = 'M4LTSJGUGTGBPGL1RWX2OF3TD3NPTSQRAZE3X5WCKDGEMZEG' # your_

→ Foursquare Secret

VERSION = '20180605' # Foursquare API version

print('Your credentails:')

print('CLIENT_ID: ' + CLIENT_ID)

print('CLIENT_SECRET:' + CLIENT_SECRET)
```

Your credentails:

CLIENT_ID: PKOBLYCFF1NEKHLDPTGWIJKRMGJENMPWPL4WEEZAKZZKL2L1 CLIENT_SECRET:M4LTSJGUGTGBPGL1RWX2OF3TD3NPTSQRAZE3X5WCKDGEMZEG

This is a function to process all the districts in Madrid.

```
# make the GET request
      results = requests.get(url).json()["response"]['groups'][0]['items']
       # return only relevant information for each nearby venue
      venues_list.append([(
           name,
           lat,
           lng,
           v['venue']['name'],
           v['venue']['location']['lat'],
           v['venue']['location']['lng'],
           v['venue']['categories'][0]['name']) for v in results])
  nearby_venues = pd.DataFrame([item for venue_list in venues_list for item in_
→venue_list])
  nearby_venues.columns = ['District',
                 'District Latitude',
                 'District Longitude',
                 'Venue',
                 'Venue Latitude',
                 'Venue Longitude',
                 'Venue Category' ]
  return(nearby_venues)
```

Creating a new dataframe with Madrid venues.

Centro
Arganzuela
Retiro
Salamanca
ChamartÃηn
TetuÃąn
ChamberÃη
Fuencarral-El Pardo
Moncloa-Aravaca
Latina
Carabanchel
Usera
Puente de Vallecas
Moratalaz
Ciudad Lineal

```
Villa de Vallecas
     VicÃalvaro
     San Blas-Canillejas
     Barajas
[78]: Madrid_venues.head()
[78]:
        District District Latitude District Longitude \
                                                -3.707371
          Centro
                           40.415347
      1
          Centro
                           40.415347
                                                -3.707371
      2
          Centro
                           40.415347
                                                -3.707371
          Centro
                           40.415347
                                                -3.707371
      3
          Centro
                           40.415347
                                                -3.707371
                                   Venue
                                         Venue Latitude
                                                           Venue Longitude
      0
                                                                  -3.707506
                             Plaza Mayor
                                                40.415527
                  Mercado de San Miguel
                                                40.415443
                                                                  -3.708943
      1
      2
        La Taberna de Mister Pinkleton
                                                40.414536
                                                                  -3.708108
      3
                          The Hat Madrid
                                                40.414343
                                                                  -3.707120
      4
                           Bodegas Ricla
                                                40.414266
                                                                  -3.708077
          Venue Category
      0
                   Plaza
                  Market
      1
         Other Nightlife
      3
                   Hotel
      4
                Wine Bar
     Getting the number of venues per District
[95]: Number_venues_district = Madrid_venues.groupby('District').count()
[96]: Number_venues_district
[96]:
                            District Latitude
                                                District Longitude
      District
      Arganzuela
                                            89
                                                                 89
                                                                        89
      Barajas
                                            31
                                                                 31
                                                                        31
      Carabanchel
                                             8
                                                                  8
                                                                         8
      Centro
                                            75
                                                                 75
                                                                        75
      ChamartÃnn
                                             24
                                                                  24
                                                                         24
      ChamberÃŋ
                                            100
                                                                 100
                                                                        100
      Ciudad Lineal
                                            31
                                                                 31
                                                                        31
      Fuencarral-El Pardo
                                            40
                                                                 40
                                                                        40
      Hortaleza
```

Hortaleza Villaverde

Latina

19

100

19

100

19

100

| Moncloa-Aravaca | 56 | 56 | 56 |
|---------------------|----|----|----|
| Moratalaz | 13 | 13 | 13 |
| Puente de Vallecas | 28 | 28 | 28 |
| Retiro | 40 | 40 | 40 |
| Salamanca | 46 | 46 | 46 |
| San Blas-Canillejas | 10 | 10 | 10 |
| TetuÃąn | 41 | 41 | 41 |
| Usera | 13 | 13 | 13 |
| VicÃąlvaro | 13 | 13 | 13 |
| Villa de Vallecas | 7 | 7 | 7 |
| Villaverde | 8 | 8 | 8 |
| | | | |

| | Venue Latitude | Venue Longitude | Venue Category |
|---------------------|----------------|-----------------|----------------|
| District | | | |
| Arganzuela | 89 | 89 | 89 |
| Barajas | 31 | 31 | 31 |
| Carabanchel | 8 | 8 | 8 |
| Centro | 75 | 75 | 75 |
| ChamartÃŋn | 24 | 24 | 24 |
| ChamberÃŋ | 100 | 100 | 100 |
| Ciudad Lineal | 31 | 31 | 31 |
| Fuencarral-El Pardo | 40 | 40 | 40 |
| Hortaleza | 19 | 19 | 19 |
| Latina | 100 | 100 | 100 |
| Moncloa-Aravaca | 56 | 56 | 56 |
| Moratalaz | 13 | 13 | 13 |
| Puente de Vallecas | 28 | 28 | 28 |
| Retiro | 40 | 40 | 40 |
| Salamanca | 46 | 46 | 46 |
| San Blas-Canillejas | 10 | 10 | 10 |
| TetuÃąn | 41 | 41 | 41 |
| Usera | 13 | 13 | 13 |
| VicÃąlvaro | 13 | 13 | 13 |
| Villa de Vallecas | 7 | 7 | 7 |
| Villaverde | 8 | 8 | 8 |

Breakdown by categories

```
[97]: Number_venues_district_category = Madrid_venues.groupby('District')['Venue

→Category'].value_counts()
```

[99]: Number_venues_district_category

| [99]: | District | Venue Category | |
|-------|------------|--------------------|----|
| | Arganzuela | Restaurant | 10 |
| | | Spanish Restaurant | 8 |
| | | Grocery Store | 5 |

```
Bakery 4
Tapas Restaurant 4

Villaverde Grocery Store 4
Gastropub 1
Mediterranean Restaurant 1
Spanish Restaurant 1
Train Station 1
```

Name: Venue Category, Length: 486, dtype: int64

Number of hotels per district

```
[115]: Madrid_Hotels = Madrid_venues[Madrid_venues['Venue Category'] == 'Hotel']
Madrid_Hotels.groupby('District')['Venue'].count()
```

[115]: District
Arganzuela 2
Barajas 7
Centro 2
ChamberÃŋ 1
Ciudad Lineal 2
Latina 6
Moncloa-Aravaca 1
Puente de Vallecas 2
Salamanca 1
TetuÃạn 2
Name: Venue, dtype: int64

Name of the hotels in each district

```
[135]: values = Madrid_Hotels.groupby('District')['Venue'].value_counts()
values
```

| [135]: | District | Venue | |
|--------|---------------|--------------------------------------|---|
| | Arganzuela | AC Hotel by Marriott Atocha | 1 |
| | | AC Hotel by Marriott Carlton Madrid | 1 |
| | Barajas | Hostal Aeropuerto | 1 |
| | | Hotel Clement Barajas | 1 |
| | | Hotel Ibis Madrid Aeropuerto Barajas | 1 |
| | | Hotel Villa de Barajas | 1 |
| | | MeliÃą Barajas | 1 |
| | | Tach Hotel Madrid | 1 |
| | | Tryp Alameda Aeropuerto | 1 |
| | Centro | Hotel Liabeny | 1 |
| | | The Hat Madrid | 1 |
| | ChamberÃŋ | Gran Hotel Conde Duque | 1 |
| | Ciudad Lineal | ILUNION Atrium | 1 |
| | | hotel artiem madrid fresh people | 1 |

```
Latina
                    Eurostars Plaza Mayor
                                                            1
                    HRC Madrid
                                                            1
                    Hotel chic&basic Mayerling
                                                            1
                    Pestana Plaza Mayor Madrid
                    Posada del LeÃşn de Oro
                                                            1
                    The Hat Madrid
                                                            1
                    Hotel Exe Moncloa
Moncloa-Aravaca
                                                            1
Puente de Vallecas Hotel NH Madrid Sur
                    Ibis Budget Calle M30
                                                            1
Salamanca
                    Bless Hotel Madrid
                                                            1
                    Erase Un Hotel
TetuÃan
                                                             1
                    MeliÃa Castilla
```

Name: Venue, dtype: int64

Analyze each district

| [138]: | | District A | merican Resta | urant | Arcade | Arepa Re | staurant | \ | | |
|--------|-----|------------|---------------|-------|--------|-----------|----------|------------|---|--|
| | 0 | Centro | | 0 | 0 | | 0 | | | |
| | 1 | Centro | | 0 | 0 | | 0 | | | |
| | 2 | Centro | | 0 | 0 | | 0 | | | |
| | 3 | Centro | | 0 | 0 | | 0 | | | |
| | 4 | Centro | | 0 | 0 | | 0 | | | |
| | | | | | | | | | | |
| | 787 | Barajas | | 0 | 0 | | 0 | | | |
| | 788 | Barajas | | 0 | 0 | | 0 | | | |
| | 789 | Barajas | | 0 | 0 | | 0 | | | |
| | 790 | Barajas | | 0 | 0 | | 0 | | | |
| | 791 | Barajas | | 0 | 0 | | 0 | | | |
| | | | _ | | | | | _ | | |
| | | Argentinia | n Restaurant | Art G | allery | Art Museu | m Asian | Restaurant | \ | |
| | 0 | | 0 | | 0 | | 0 | 0 | | |
| | 1 | | 0 | | 0 | | 0 | 0 | | |
| | 2 | | 0 | | 0 | | 0 | 0 | | |
| | 3 | | 0 | | 0 | | 0 | 0 | | |

```
4
                            0
                                           0
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                                                        0
. .
787
                                                        0
                                                                            0
788
                                                                            0
                                                                            0
789
                            0
790
                                                                            0
                            0
                                           0
                                                        0
791
                            0
                                           0
                                                        0
                                                                            0
     Athletics & Sports BBQ Joint
                                       ... Theme Restaurant
                                                                 Toy / Game Store
0
                        0
1
                        0
                                                              0
                                                                                  0
                                        . . .
2
                        0
                                                              0
                                                                                  0
                                                              0
3
                        0
                                                                                  0
                                    0
4
                        0
                                                              0
                                                                                  0
                                    0
787
                        0
                                    0
                                                              0
                                                                                  0
788
                        0
                                                              0
                                                                                  0
789
                                                              0
                                                                                  0
790
                                                              0
                                                                                  0
791
     Trade School Train Station Udon Restaurant
0
                 0
                                  0
                                  0
                                                     0
1
                 0
2
                 0
                                  0
                                                     0
3
                                                     0
                 0
787
                 0
                                  0
                                                     0
788
                 0
                                  0
                                                     0
789
                 0
                                                     0
790
                 0
                                  0
                                                     0
791
                 0
                                                     0
     Vegetarian / Vegan Restaurant
                                       Video Game Store Wine Bar Wine Shop \
0
                                                                   0
1
                                    0
                                                        0
                                                                   0
                                                                               0
2
                                    0
                                                        0
                                                                   0
                                                                               0
3
                                    0
                                                        0
                                                                   0
4
                                    0
                                                        0
                                                                               0
                                                                   1
. .
                                  . . .
787
                                    0
                                                        0
                                                                   0
                                                                               0
788
                                    0
                                                        0
                                                                   0
                                                                               0
                                                        0
                                                                               0
789
                                    0
                                                                   0
790
                                    0
                                                        0
                                                                   0
                                                                               0
791
                                    0
                                                        0
                                                                   0
                                                                               0
```

| | Women's | Store |
|-----|---------|-------|
| 0 | | 0 |
| 1 | | 0 |
| 2 | | 0 |
| 3 | | 0 |
| 4 | | 0 |
| | | |
| 787 | | 0 |
| 788 | | 0 |
| 789 | | 0 |
| 790 | | 0 |
| 791 | | 0 |

[792 rows x 157 columns]

Let's explore the mean of the frequency of occurrence of each category by district

```
[143]: Madrid_grouped = Madrid_onehot.groupby('District').mean().reset_index()
Madrid_grouped
```

| [143]: | District A | merican Restaurant | Arcade A | repa Restaurant \ |
|--------|------------------------|--------------------|-------------|-------------------|
| 0 | Arganzuela | 0.000000 | 0.000000 | 0.022472 |
| 1 | Barajas | 0.000000 | 0.000000 | 0.000000 |
| 2 | Carabanchel | 0.000000 | 0.000000 | 0.000000 |
| 3 | Centro | 0.013333 | 0.000000 | 0.000000 |
| 4 | ChamartÃŋn | 0.00000 | 0 0.041667 | 0.000000 |
| 5 | ChamberÃŋ | 0.01000 | 0.000000 | 0.000000 |
| 6 | Ciudad Lineal | 0.000000 | 0.000000 | 0.000000 |
| 7 | Fuencarral-El Pardo | 0.000000 | 0.000000 | 0.000000 |
| 8 | Hortaleza | 0.000000 | 0.000000 | 0.000000 |
| 9 | Latina | 0.010000 | 0.000000 | 0.000000 |
| 10 | Moncloa-Aravaca | 0.000000 | 0.000000 | 0.000000 |
| 11 | Moratalaz | 0.000000 | 0.000000 | 0.000000 |
| 12 | Puente de Vallecas | 0.000000 | 0.000000 | 0.000000 |
| 13 | Retiro | 0.000000 | 0.000000 | 0.000000 |
| 14 | Salamanca | 0.021739 | 0.000000 | 0.000000 |
| 15 | San Blas-Canillejas | 0.000000 | 0.000000 | 0.000000 |
| 16 | TetuÃąn | 0.00000 | 0.000000 | 0.000000 |
| 17 | Usera | 0.000000 | 0.000000 | 0.000000 |
| 18 | VicÃąlvaro | 0.00000 | 0.000000 | 0.000000 |
| 19 | Villa de Vallecas | 0.000000 | 0.000000 | 0.000000 |
| 20 | Villaverde | 0.000000 | 0.000000 | 0.000000 |
| | Argentinian Restaurant | Art Gallery Art | Museum Asia | n Restaurant \ |
| 0 | 0.000000 | 0.000000 | .000000 | 0.011236 |
| 1 | 0.032258 | 0.000000 | .000000 | 0.000000 |
| 2 | 0.000000 | 0.000000 | .000000 | 0.000000 |

```
3
                    0.013333
                                  0.000000
                                               0.013333
                                                                    0.000000
4
                                  0.00000
                                                                    0.000000
                    0.000000
                                               0.000000
5
                    0.000000
                                  0.000000
                                                0.000000
                                                                    0.010000
6
                    0.000000
                                  0.000000
                                                0.00000
                                                                    0.000000
7
                    0.000000
                                  0.000000
                                                0.000000
                                                                    0.000000
8
                    0.052632
                                  0.00000
                                                0.00000
                                                                    0.000000
9
                    0.000000
                                  0.010000
                                               0.000000
                                                                    0.000000
10
                    0.000000
                                  0.000000
                                                0.00000
                                                                    0.017857
11
                    0.000000
                                  0.000000
                                                0.000000
                                                                    0.000000
12
                    0.000000
                                  0.000000
                                                0.000000
                                                                    0.000000
13
                    0.000000
                                  0.025000
                                                0.000000
                                                                    0.000000
14
                    0.00000
                                  0.021739
                                                0.00000
                                                                    0.00000
15
                    0.000000
                                  0.000000
                                                0.000000
                                                                    0.100000
16
                    0.000000
                                  0.00000
                                                0.00000
                                                                    0.024390
17
                    0.000000
                                  0.00000
                                                0.00000
                                                                    0.076923
18
                    0.000000
                                  0.000000
                                                0.000000
                                                                    0.076923
19
                    0.00000
                                  0.00000
                                                0.00000
                                                                    0.000000
20
                    0.000000
                                  0.000000
                                                0.000000
                                                                    0.000000
    Athletics & Sports
                          BBQ Joint
                                            Theme Restaurant
                                                                Toy / Game Store
                                       . . .
0
               0.00000
                                                                             0.000
                           0.000000
                                                     0.011236
1
                           0.00000
                                                                             0.000
               0.000000
                                                     0.000000
                                       . . .
2
                           0.00000
                                                     0.00000
                                                                             0.000
               0.000000
                                       . . .
3
               0.000000
                           0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
4
                           0.00000
               0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
5
               0.000000
                           0.010000
                                                     0.000000
                                                                             0.010
                                       . . .
6
               0.032258
                           0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
7
                           0.00000
               0.000000
                                                     0.000000
                                                                             0.025
                                       . . .
8
               0.00000
                           0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
9
                           0.000000
                                                                             0.000
               0.00000
                                                     0.000000
                                       . . .
                           0.000000
                                                                             0.000
10
               0.017857
                                                     0.000000
                                       . . .
11
                           0.000000
                                                     0.000000
                                                                             0.000
               0.000000
                                       . . .
12
                           0.035714
               0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
13
               0.00000
                           0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
14
                           0.000000
                                                                             0.000
               0.000000
                                                     0.000000
                                       . . .
15
               0.00000
                            0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
                           0.00000
                                                                             0.000
16
               0.000000
                                                     0.000000
17
                           0.00000
                                                                             0.000
               0.000000
                                                     0.000000
                                       . . .
18
               0.000000
                            0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
19
               0.000000
                            0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
20
               0.000000
                            0.000000
                                                     0.000000
                                                                             0.000
                                       . . .
                                    Udon Restaurant
    Trade School
                    Train Station
                                                       \
0
         0.011236
                         0.011236
                                                0.000
1
                                                0.000
         0.00000
                         0.000000
2
         0.000000
                         0.000000
                                                0.000
3
         0.00000
                         0.000000
                                                0.000
```

```
4
                                              0.000
        0.00000
                        0.000000
5
                                              0.000
        0.00000
                        0.00000
6
        0.000000
                        0.000000
                                              0.000
7
        0.00000
                        0.000000
                                              0.025
8
        0.00000
                        0.000000
                                              0.000
9
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10
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11
        0.00000
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                                              0.000
12
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13
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14
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                                              0.000
15
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16
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                        0.000000
                                              0.000
17
        0.00000
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18
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        0.00000
                        0.000000
19
        0.00000
                        0.00000
                                              0.000
20
        0.00000
                        0.125000
                                              0.000
    Vegetarian / Vegan Restaurant
                                     Video Game Store
                                                         Wine Bar
                                                                    Wine Shop
0
                               0.00
                                                  0.000
                                                         0.00000
                                                                     0.00000
1
                               0.00
                                                  0.000
                                                         0.032258
                                                                     0.00000
2
                               0.00
                                                 0.000
                                                         0.00000
                                                                     0.00000
3
                               0.00
                                                 0.000
                                                         0.026667
                                                                     0.00000
4
                               0.00
                                                 0.000
                                                         0.000000
                                                                     0.000000
5
                               0.02
                                                  0.000
                                                         0.010000
                                                                     0.00000
6
                               0.00
                                                  0.000
                                                         0.000000
                                                                     0.000000
7
                                                         0.000000
                               0.00
                                                  0.025
                                                                     0.00000
8
                               0.00
                                                  0.000
                                                         0.000000
                                                                     0.00000
                               0.03
9
                                                  0.000
                                                         0.020000
                                                                     0.00000
10
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                                                  0.000
                                                         0.000000
                                                                     0.00000
11
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                                                  0.000
                                                         0.000000
                                                                     0.00000
12
                               0.00
                                                  0.000
                                                         0.000000
                                                                     0.00000
13
                               0.00
                                                  0.000
                                                         0.000000
                                                                     0.000000
                               0.00
14
                                                  0.000
                                                         0.00000
                                                                     0.021739
15
                               0.00
                                                  0.000
                                                         0.000000
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16
                               0.00
                                                  0.000
                                                         0.00000
                                                                     0.00000
17
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                                                         0.000000
                                                                     0.00000
18
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                                                         0.000000
                                                                     0.00000
19
                               0.00
                                                 0.000
                                                         0.000000
                                                                     0.00000
20
                               0.00
                                                 0.000
                                                         0.000000
                                                                     0.00000
    Women's Store
0
         0.000000
1
         0.000000
2
         0.000000
3
         0.000000
```

4

0.00000

```
5
         0.000000
6
         0.000000
7
         0.000000
8
         0.000000
9
         0.000000
         0.017857
10
         0.00000
11
12
         0.00000
13
         0.000000
14
         0.00000
15
         0.000000
16
         0.00000
17
         0.00000
18
         0.000000
19
         0.000000
         0.000000
20
```

[21 rows x 157 columns]

Let's explore the mean of the frequency of occurrence of each hotel category by district

```
[144]: Madrid_hotels_grouped = Madrid_onehot.groupby('District')['Hotel'].mean().

reset_index()

Madrid_hotels_grouped
```

```
[144]:
                      District
                                   Hotel
       0
                    Arganzuela 0.022472
       1
                       Barajas
                                0.225806
       2
                   Carabanchel
                                0.000000
       3
                        Centro 0.026667
       4
                     ChamartÃnn 0.00000
       5
                      ChamberÃn 0.010000
       6
                 Ciudad Lineal
                                0.064516
       7
           Fuencarral-El Pardo
                                0.000000
       8
                     Hortaleza 0.000000
       9
                        Latina 0.060000
       10
               Moncloa-Aravaca 0.017857
                     Moratalaz 0.000000
       11
       12
            Puente de Vallecas
                                0.071429
       13
                        Retiro 0.000000
       14
                     Salamanca 0.021739
       15
           San Blas-Canillejas
                                0.000000
       16
                        TetuÃan 0.048780
       17
                         Usera 0.000000
                     VicÃalvaro 0.000000
       18
       19
             Villa de Vallecas
                                0.000000
       20
                    Villaverde
                                0.000000
```

Showing the top 5 most common venues for each district

```
[145]: num_top_venues = 5
      for district in Madrid_grouped['District']:
          print("----"+district+"----")
          temp = Madrid_grouped[Madrid_grouped['District'] == district].T.reset_index()
          temp.columns = ['venue','freq']
          temp = temp.iloc[1:]
          temp['freq'] = temp['freq'].astype(float)
          temp = temp.round({'freq': 2})
          print(temp.sort_values('freq', ascending=False).reset_index(drop=True).
        →head(num_top_venues))
          print('\n')
      ----Arganzuela----
                      venue freq
      0
                 Restaurant 0.11
        Spanish Restaurant 0.09
      1
      2
              Grocery Store 0.06
      3
           Tapas Restaurant 0.04
      4
                     Bakery 0.04
      ----Barajas----
                      venue freq
      0
                      Hotel 0.23
      1 Spanish Restaurant 0.10
      2
                 Restaurant 0.10
      3
                Coffee Shop 0.06
           Tapas Restaurant 0.06
      ----Carabanchel----
                        venue freq
      0
                  Pizza Place 0.12
      1 Fast Food Restaurant 0.12
                        Plaza 0.12
      3
                 Burger Joint 0.12
                 Soccer Field 0.12
      4
      ----Centro----
                      venue freq
           Tapas Restaurant 0.13
      1 Spanish Restaurant 0.11
      2
                     Plaza 0.07
      3
                    Hostel 0.07
```

Bistro 0.05

----ChamartÃŋn---venue freq Restaurant 0.21 Spanish Restaurant 0.08 Tapas Restaurant 0.08 Mediterranean Restaurant 0.04 Plaza 0.04

----ChamberÃŋ----

4

venue freq
0 Spanish Restaurant 0.10
1 Restaurant 0.10
2 Bar 0.06
3 Tapas Restaurant 0.06
4 Bakery 0.05

----Ciudad Lineal----

venue freq
0 Spanish Restaurant 0.19
1 Grocery Store 0.10
2 Pizza Place 0.06
3 Coffee Shop 0.06
4 Hotel 0.06

----Fuencarral-El Pardo----

venue freq
Clothing Store 0.10
Fast Food Restaurant 0.08
Italian Restaurant 0.08
Restaurant 0.05
Tapas Restaurant 0.05

----Hortaleza----

venue freq
0 Pizza Place 0.11
1 Supermarket 0.11
2 Spanish Restaurant 0.11
3 Breakfast Spot 0.11
4 Pharmacy 0.05

```
----Latina----
               venue freq
     Tapas Restaurant 0.13
   Spanish Restaurant 0.10
                 Bar 0.07
3
               Plaza 0.06
               Hotel 0.06
4
----Moncloa-Aravaca----
               venue freq
   Spanish Restaurant 0.05
          Restaurant 0.05
                 Bar 0.04
3
          Coffee Shop 0.04
      Sandwich Place 0.04
----Moratalaz----
        venue freq
     Brewery 0.08
0
1
         Bar 0.08
       Plaza 0.08
        Park 0.08
4 Restaurant 0.08
----Puente de Vallecas----
                 venue freq
   Fast Food Restaurant 0.11
1
      Tapas Restaurant 0.07
2
                 Hotel 0.07
                  CafÃľ 0.07
3
4
         Grocery Store 0.07
----Retiro----
               venue freq
  Spanish Restaurant 0.15
1
     Tapas Restaurant 0.05
2
       Grocery Store 0.05
3
              Bakery 0.05
4
                 Bar 0.05
----Salamanca----
```

venue freq

Spanish Restaurant 0.13

| 1
2
3
4 | | estaurar
Boutiqu
estaurar
estaurar | ne 0.09 |
|--------------------------------|--|--|--|
| | San Blas-Canill | ejas | - - |
| | | req | |
| 0 | | 0.2 | |
| 1 | | 0.1 | |
| 2 | Gym | | |
| 3
4 | Shopping Mall
Snack Place | 0.1 | |
| 4 | SHACK FIACE | 0.1 | |
| | - | | |
| | TetuÃąn | | |
| ^ | | | req |
| 0 | Spanish Restau
Restau | |).22
).07 |
| 2 | Brazilian Restau | | 0.07 |
| 3 | Chinese Restau | | 0.05 |
| 4 | | | 0.05 |
| - | | · · · · - j | .,,,, |
| | | | |
| | Usera | | _ |
| ^ | | | req |
| 0 | Spanish Restau | |).15 |
| 1
2 | Chinese Restau
Seafood Restau | |).15
).15 |
| 3 | | | 0.15 |
| 4 | Fast Food Restau | | 0.08 |
| - | 1 450 1 004 10504 | | ,,,,,, |
| | | | |
| | VicÃąlvaro | | |
| | | | |
| _ | | | req |
| 0 | Spanish Restau | ırant (|).15 |
| 1 | Spanish Restau
Pizza F | rant (
Place (|).15
).15 |
| 1
2 | Spanish Restau
Pizza F
Fast Food Restau | rant ()
lace ()
rant () |).15
).15
).08 |
| 1
2
3 | Spanish Restau
Pizza F
Fast Food Restau
Ice Cream | rant () Place () Irant () Shop () |).15
).15
).08
).08 |
| 1
2 | Spanish Restau
Pizza F
Fast Food Restau | rant () Place () Irant () Shop () |).15
).15
).08 |
| 1
2
3 | Spanish Restau
Pizza F
Fast Food Restau
Ice Cream | rant () Place () Irant () Shop () |).15
).15
).08
).08 |
| 1
2
3
4 | Spanish Restau
Pizza F
Fast Food Restau
Ice Cream | rant () Place () Irant () Shop () Spot () |).15
).15
).08
).08 |
| 1
2
3
4 | Spanish Restau
Pizza F
Fast Food Restau
Ice Cream
Breakfast
Villa de Valled
ver | rant (Place (Irant (Shop (Spot (Cas Tue free | 0.15
0.15
0.08
0.08
0.08 |
| 1
2
3
4 | Spanish Restau
Pizza F
Fast Food Restau
Ice Cream
Breakfast
Villa de Valled
ver
Spanish Restaura | rant () Place () Irant () Shop () Spot () Cas ue free ant 0.1 | 0.15
0.15
0.08
0.08
0.08 |
| 1
2
3
4

0
1 | Spanish Restau
Pizza F
Fast Food Restau
Ice Cream
Breakfast
Villa de Valled
ver
Spanish Restaura | rant (Place (Irant (Shop (Spot (C C C C C C C C C C C C C C C C C C C | 0.15
0.15
0.08
0.08
0.08 |
| 1
2
3
4 | Spanish Restau
Pizza F
Fast Food Restau
Ice Cream
Breakfast
Villa de Valled
ver
Spanish Restaura
Pla
Soccer Fie | rant (Place (Irant (Shop (Spot (C C C C C C C C C C C C C C C C C C C | 0.15
0.15
0.08
0.08
0.08
0.08 |

```
4 Bar 0.14

----Villaverde----
venue freq
0 Grocery Store 0.50
1 Spanish Restaurant 0.12
2 Gastropub 0.12
3 Train Station 0.12
```

4 Mediterranean Restaurant 0.12

A function to sort the venues in descending order.

```
[146]: def return_most_common_venues(row, num_top_venues):
    row_categories = row.iloc[1:]
    row_categories_sorted = row_categories.sort_values(ascending=False)

    return row_categories_sorted.index.values[0:num_top_venues]
```

Let's put data into a pandas dataframe with the top 10 venues for each district.

```
indicators = ['st', 'nd', 'rd']

# create columns according to number of top venues
columns = ['District']
for ind in np.arange(num_top_venues):
    try:
        columns.append('{}{} Most Common Venue'.format(ind+1, indicators[ind]))
    except:
        columns.append('{}th Most Common Venue'.format(ind+1))

# create a new dataframe
Madrid_districts_venues_sorted = pd.DataFrame(columns=columns)
Madrid_districts_venues_sorted['District'] = Madrid_grouped['District']

for ind in np.arange(Madrid_grouped.shape[0]):
        Madrid_districts_venues_sorted.iloc[ind, 1:] = ____
        -return_most_common_venues(Madrid_grouped.iloc[ind, :], num_top_venues)

Madrid_districts_venues_sorted.head()
```

```
[147]: District 1st Most Common Venue 2nd Most Common Venue \(^1\)

O Arganzuela Restaurant Spanish Restaurant

1 Barajas Hotel Restaurant
```

```
3
               Centro
                           Tapas Restaurant
                                                Spanish Restaurant
       4
            ChamartÃnn
                                   Restaurant
                                                   Tapas Restaurant
         3rd Most Common Venue 4th Most Common Venue 5th Most Common Venue \
       0
                 Grocery Store
                                               Bakery
                                                            Tapas Restaurant
            Spanish Restaurant
                                     Tapas Restaurant
                                                                   Gastropub
       1
       2 Fast Food Restaurant
                                          Pizza Place
                                                                       Plaza
                                               Hostel
       3
                         Plaza
                                                                      Bistro
       4
                                     Sushi Restaurant
                                                          Seafood Restaurant
            Spanish Restaurant
           6th Most Common Venue 7th Most Common Venue 8th Most Common Venue \
       0
            Gym / Fitness Center
                                            Beer Garden
                                                                         Hotel
                                                   CafÃľ
       1
                     Coffee Shop
                                                                       Wine Bar
       2
                    Burger Joint
                                                 Bakery
                                                                     Nightclub
       3
                    Cocktail Bar
                                                  Hotel
                                                                      Wine Bar
       4 Furniture / Home Store
                                                  Plaza
                                                                 Big Box Store
         9th Most Common Venue 10th Most Common Venue
       0
                        Market
                                               Brewery
            Mexican Restaurant
       1
                                                 Diner
                                        Farmers Market
       2
                   Flea Market
       3
                    Restaurant
                                                   Bar
                     Gastropub
                                            Steakhouse
      Run k-means to cluster the neighborhood into 5 clusters.
[151]: from sklearn.cluster import KMeans
       # set number of clusters
       kclusters = 5
       Madrid_grouped_clustering = Madrid_grouped.drop('District', 1)
```

Tapas Restaurant

Soccer Field

2

Carabanchel

run k-means clustering

→fit(Madrid_grouped_clustering)

kmeans = KMeans(n_clusters=kclusters, random_state=0).

check cluster labels generated for each row in the dataframe

```
# merge toronto_grouped with toronto_data to add latitude/longitude for each,
       \rightarrowneighborhood
       Madrid_merged = Madrid_merged.join(Madrid_districts_venues_sorted.
        →set_index('District'), on='Name')
       # Resulting Clusters labels are float. Converted to int because folium.
        → CircleMarker need int values to color.
       Madrid_merged['Cluster Labels'] = Madrid_merged['Cluster Labels'].astype(int)
       Madrid_merged.head()
[162]:
        District Number
                                Name District area[n 1] (Ha.) Population \
       0
                       1
                              Centro
                                                        522.82
                                                                   131,928
       1
                       2
                          Arganzuela
                                                        646.22
                                                                   151,965
       2
                       3
                              Retiro
                                                        546.62
                                                                   118,516
                           Salamanca
       3
                       4
                                                        539.24
                                                                   143,800
       4
                       5
                           ChamartÃŋn
                                                         917.55
                                                                   143,424
         Population density(Hab./Ha.)
                                        Latitude Longitude Cluster Labels
       0
                               252.34 40.415347 -3.707371
                               235.16 40.402733 -3.695403
                                                                            0
       1
       2
                                                                            0
                               216.82 40.408072 -3.676729
       3
                               266.67 40.429722 -3.679750
                                                                            0
       4
                                156.31 40.462059
                                                  -3.676600
                                                                            0
         1st Most Common Venue 2nd Most Common Venue 3rd Most Common Venue \
       0
              Tapas Restaurant
                                   Spanish Restaurant
                                                                       Plaza
       1
                                   Spanish Restaurant
                                                              Grocery Store
                    Restaurant
       2
            Spanish Restaurant
                                               Bakery
                                                              Grocery Store
       3
                                                                  Restaurant
            Spanish Restaurant
                                             Boutique
       4
                    Restaurant
                                    Tapas Restaurant
                                                         Spanish Restaurant
         4th Most Common Venue
                                  5th Most Common Venue
                                                             6th Most Common Venue \
       0
                        Hostel
                                                                      Cocktail Bar
                                                   Bistro
                                         Tapas Restaurant
       1
                        Bakery
                                                             Gym / Fitness Center
       2
                   Supermarket
                                                   Museum
                                                                  Tapas Restaurant
       3
                                Mediterranean Restaurant
                                                                  Tapas Restaurant
                        Bakery
                                       Seafood Restaurant Furniture / Home Store
       4
              Sushi Restaurant
         7th Most Common Venue 8th Most Common Venue 9th Most Common Venue
       0
                         Hotel
                                             Wine Bar
                                                                  Restaurant
                   Beer Garden
       1
                                                Hotel
                                                                      Market
                           Bar
       2
                                                                  Board Shop
                                                  Gym
                   Coffee Shop
                                                                       Hotel
       3
                                  Mexican Restaurant
       4
                         Plaza
                                        Big Box Store
                                                                  Gastropub
```

```
10th Most Common Venue

Bar
Brewery
Boutique
Liquor Store
Steakhouse
```

Visualizing the resulting clusters in a map

```
[164]: import matplotlib.cm as cm
       import matplotlib.colors as colors
       # import k-means from clustering stage
       from sklearn.cluster import KMeans
       # create map
       Madrid_map_clusters = folium.Map(location=[latitude, longitude], zoom_start=11)
       # set color scheme for the clusters
       x = np.arange(kclusters)
       ys = [i + x + (i*x)**2 \text{ for } i \text{ in } range(kclusters)]
       colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
       rainbow = [colors.rgb2hex(i) for i in colors_array]
       # add markers to the map,
       markers_colors = []
       for lat, lon, poi, cluster in zip(Madrid_merged['Latitude'],__
        →Madrid_merged['Longitude'], Madrid_merged['Name'], Madrid_merged['Cluster_
        →Labels']):
           label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
           folium.CircleMarker(
               [lat, lon],
               radius=5,
               popup=label,
               color=rainbow[cluster-1],
               fill=True,
               fill_color=rainbow[cluster-1],
               fill_opacity=0.7).add_to(Madrid_map_clusters)
       Madrid_map_clusters
```

[164]: <folium.folium.Map at 0x23cded55888>

We repeat the same process only for the hotel category

```
[166]: #from sklearn.cluster import KMeans
# set number of clusters
```

```
Madrid_hotels_grouped_clustering = Madrid_hotels_grouped.drop('District', 1)
       # run k-means clustering
       kmeans = KMeans(n_clusters=kclusters, random_state=0).
       →fit(Madrid_hotels_grouped_clustering)
       # check cluster labels generated for each row in the dataframe
       kmeans.labels_[0:10]
[166]: array([1, 2, 1, 1, 1, 1, 0, 1, 1, 0])
[168]: # add clustering labels
       Madrid_districts_hotels = Madrid_hotels_grouped
       Madrid_districts_hotels.insert(0, 'Cluster Labels', kmeans.labels_)
       Madrid_hotels_merged = Final_MadridDF
       # merge toronto_grouped with toronto_data to add latitude/longitude for each_
       \rightarrowneighborhood
       Madrid_hotels_merged = Madrid_hotels_merged.join(Madrid_districts_hotels.

→set_index('District'), on='Name')
       # Resulting Clusters labels are float. Converted to int because folium.
        → CircleMarker need int values to color.
       Madrid_hotels_merged['Cluster Labels'] = Madrid_hotels_merged['Cluster Labels'].
       →astype(int)
       Madrid_hotels_merged.head()
[168]: District Number
                               Name District area[n 1] (Ha.) Population \
                                                      522.82
                                                                131,928
                             Centro
       1
                      2 Arganzuela
                                                      646.22
                                                                151,965
                             Retiro
       2
                      3
                                                      546.62
                                                                118,516
       3
                      4
                          Salamanca
                                                      539.24
                                                                143,800
                          ChamartÃŋn
       4
                      5
                                                       917.55
                                                                143,424
        Population density(Hab./Ha.) Latitude Longitude Cluster Labels
                                                                               Hotel
                              252.34 40.415347 -3.707371
                                                                         1 0.026667
       0
                              235.16 40.402733 -3.695403
                                                                         1 0.022472
       1
       2
                              216.82 40.408072 -3.676729
                                                                         1 0.000000
                              266.67 40.429722 -3.679750
       3
                                                                         1 0.021739
                              156.31 40.462059 -3.676600
                                                                        1 0.000000
```

kclusters = 3

```
[169]: #import matplotlib.cm as cm
       #import matplotlib.colors as colors
       # import k-means from clustering stage
       #from sklearn.cluster import KMeans
       # create map
       Madrid_hotels_map_clusters = folium.Map(location=[latitude, longitude],__
        ⇒zoom_start=11)
       # set color scheme for the clusters
       x = np.arange(kclusters)
       ys = [i + x + (i*x)**2 \text{ for } i \text{ in range(kclusters)}]
       colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
       rainbow = [colors.rgb2hex(i) for i in colors_array]
       # add markers to the map,
       markers_colors = []
       for lat, lon, poi, cluster in zip(Madrid_hotels_merged['Latitude'], __
        →Madrid_hotels_merged['Longitude'], Madrid_hotels_merged['Name'],
        →Madrid_hotels_merged['Cluster Labels']):
           label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
           folium.CircleMarker(
               [lat, lon],
               radius=5,
               popup=label,
               color=rainbow[cluster-1],
               fill=True,
               fill_color=rainbow[cluster-1],
               fill_opacity=0.7).add_to(Madrid_hotels_map_clusters)
       Madrid_hotels_map_clusters
[169]: <folium.folium.Map at 0x23cded66bc8>
      Examine Cluster 1.
[171]: Madrid_merged.loc[Madrid_merged['Cluster Labels'] == 0, Madrid_merged.
        →columns[[1] + list(range(5, Madrid_merged.shape[1]))]]
[171]:
                          Name
                                Latitude Longitude Cluster Labels \
                        Centro 40.415347 -3.707371
                                                                    0
       0
                                                                    0
       1
                    Arganzuela 40.402733 -3.695403
                        Retiro 40.408072 -3.676729
                                                                    0
       3
                     Salamanca 40.429722 -3.679750
       4
                     ChamartÃŋn 40.462059 -3.676600
                                                                     0
                      ChamberÃn 40.434040 -3.703790
       6
                                                                     0
```

0

Fuencarral-El Pardo 40.478611 -3.709722

```
8
        Moncloa-Aravaca 40.435151
                                      -3.718765
                                                               0
9
                                      -3.708417
                                                               0
                  Latina 40.411360
12
     Puente de Vallecas
                          40.398204
                                      -3.669059
                                                               0
13
              Moratalaz
                          40.409869
                                      -3.644436
                                                               0
15
               Hortaleza 40.469457
                                      -3.640482
                                                               0
              VicÃalvaro
18
                           40.404200
                                       -3.608060
                                                                0
20
                                      -3.585000
                                                               0
                 Barajas 40.470278
   1st Most Common Venue 2nd Most Common Venue 3rd Most Common Venue
0
        Tapas Restaurant
                             Spanish Restaurant
                                                                   Plaza
                                                          Grocery Store
1
               Restaurant
                             Spanish Restaurant
2
      Spanish Restaurant
                                          Bakery
                                                          Grocery Store
3
      Spanish Restaurant
                                        Boutique
                                                             Restaurant
4
               Restaurant
                                Tapas Restaurant
                                                     Spanish Restaurant
6
      Spanish Restaurant
                                      Restaurant
                                                                     Bar
7
          Clothing Store
                             Italian Restaurant
                                                   Fast Food Restaurant
8
      Spanish Restaurant
                                      Restaurant
                                                    Japanese Restaurant
9
        Tapas Restaurant
                             Spanish Restaurant
12
    Fast Food Restaurant
                                           Hotel
                                                       Tapas Restaurant
13
                     Park
                                          Bakery
                                                          Shopping Mall
15
          Breakfast Spot
                             Spanish Restaurant
                                                            Supermarket
             Pizza Place
                                                               Beer Bar
18
                             Spanish Restaurant
20
                    Hotel
                                      Restaurant
                                                     Spanish Restaurant
   4th Most Common Venue
                              5th Most Common Venue
0
                   Hostel
                                              Bistro
1
                   Bakery
                                    Tapas Restaurant
2
              Supermarket
                                              Museum
3
                   Bakery
                           Mediterranean Restaurant
4
        Sushi Restaurant
                                  Seafood Restaurant
6
        Tapas Restaurant
                                              Bakery
7
               Restaurant
                                    Tapas Restaurant
8
                      Pub
                                      Ice Cream Shop
9
                    Plaza
                                                Hotel
12
                                       Grocery Store
                      Gym
13
            Soccer Field
                                                 CafÃľ
15
             Pizza Place
                                               Plaza
18
          Breakfast Spot
                               Fast Food Restaurant
20
        Tapas Restaurant
                                           Gastropub
            6th Most Common Venue 7th Most Common Venue 8th Most Common Venue
                                                     Hotel
                                                                         Wine Bar
0
                      Cocktail Bar
              Gym / Fitness Center
                                              Beer Garden
                                                                            Hotel
1
2
                  Tapas Restaurant
                                                       Bar
                                                                              Gym
3
                  Tapas Restaurant
                                              Coffee Shop
                                                              Mexican Restaurant
4
           Furniture / Home Store
                                                                    Big Box Store
                                                     Plaza
6
                              CafÃľ
                                                    Brewery
                                                                       Coffee Shop
```

```
Bar
                                                                            Pizza Place
       8
                                   Bakery
           Vegetarian / Vegan Restaurant
                                                            CafÃľ
                                                                              Restaurant
       9
                                                            CafÃľ
                                                                          Breakfast Spot
       12
                              Supermarket
       13
                               Food Truck
                                                      Restaurant
                                                                                  Plaza
                           Sandwich Place
                                                      Donut Shop
       15
                                                                             Restaurant
                           Ice Cream Shop
                                                  Sandwich Place
                                                                       Asian Restaurant
       18
                              Coffee Shop
                                                            CafÃ1
                                                                                Wine Bar
       20
              9th Most Common Venue 10th Most Common Venue
       0
                          Restaurant
                                                         Bar
       1
                              Market
                                                     Brewery
       2
                          Board Shop
                                                    Boutique
       3
                               Hotel
                                                Liquor Store
       4
                           Gastropub
                                                  Steakhouse
                                                       Plaza
       6
                 Italian Restaurant
       7
                                              Sandwich Place
                   Kebab Restaurant
       8
           Mediterranean Restaurant
                                                Burger Joint
       9
           Mediterranean Restaurant
                                                      Bistro
       12
                              Market
                                                         Pub
                                                   Nightclub
       13
                                 Bar
       15
                 Chinese Restaurant
                                                         Pub
       18
                       Grocery Store
                                                        CafÃľ
                 Mexican Restaurant
       20
                                                       Diner
      Examine Cluster 2.
[172]: Madrid_merged.loc[Madrid_merged['Cluster Labels'] == 1, Madrid_merged.
        →columns[[1] + list(range(5, Madrid_merged.shape[1]))]]
[172]:
                                  Latitude Longitude Cluster Labels
                           Name
       19 San Blas-Canillejas 40.426001
                                            -3.612764
          1st Most Common Venue 2nd Most Common Venue 3rd Most Common Venue
       19
                  Metro Station
                                                                   Snack Place
                                         Shopping Mall
          4th Most Common Venue 5th Most Common Venue 6th Most Common Venue
                    Pizza Place
       19
                                                                 Grocery Store
          7th Most Common Venue 8th Most Common Venue 9th Most Common Venue
       19
               Asian Restaurant
                                            Supermarket
                                                                  Gas Station
          10th Most Common Venue
       19
               Electronics Store
      Examine Cluster 3.
```

Burger Joint

Pizza Place

Shopping Mall

7

```
[173]: Madrid_merged.loc[Madrid_merged['Cluster Labels'] == 2, Madrid_merged.
        →columns[[1] + list(range(5, Madrid_merged.shape[1]))]]
                  Name Latitude Longitude Cluster Labels 1st Most Common Venue
[173]:
                                   -3.72799
       10 Carabanchel
                       40.38367
                                                          2
                                                                     Soccer Field
          2nd Most Common Venue 3rd Most Common Venue 4th Most Common Venue
                                                                Pizza Place
       10
               Tapas Restaurant Fast Food Restaurant
          5th Most Common Venue 6th Most Common Venue 7th Most Common Venue \
                                         Burger Joint
       10
                          Plaza
                                                                     Bakery
          8th Most Common Venue 9th Most Common Venue 10th Most Common Venue
       10
                      Nightclub
                                          Flea Market
                                                              Farmers Market
      Examine Cluster 4.
[174]: Madrid_merged.loc[Madrid_merged['Cluster Labels'] == 3, Madrid_merged.
        →columns[[1] + list(range(5, Madrid_merged.shape[1]))]]
                        Latitude Longitude Cluster Labels 1st Most Common Venue \
[174]:
                 Name
       16 Villaverde 40.349998 -3.701143
                                                          3
                                                                    Grocery Store
          2nd Most Common Venue
                                    3rd Most Common Venue 4th Most Common Venue
             Spanish Restaurant Mediterranean Restaurant
                                                                  Train Station
          5th Most Common Venue 6th Most Common Venue 7th Most Common Venue \
       16
                      Gastropub
                                        Women's Store
                                                          Electronics Store
          8th Most Common Venue 9th Most Common Venue 10th Most Common Venue
                    Flea Market Fast Food Restaurant
       16
                                                              Farmers Market
      Examine Cluster 5.
[175]: Madrid_merged.loc[Madrid_merged['Cluster Labels'] == 4, Madrid_merged.
        →columns[[1] + list(range(5, Madrid_merged.shape[1]))]]
[175]:
                               Latitude Longitude Cluster Labels \
       5
                      TetuÃan 40.459751 -3.697500
                       Usera 40.381389
                                        -3.706944
                                                                 4
       11
               Ciudad Lineal 40.445049
                                        -3.651320
       14
                                                                 4
          Villa de Vallecas 40.379597 -3.621347
          1st Most Common Venue 2nd Most Common Venue 3rd Most Common Venue \
       5
             Spanish Restaurant
                                           Restaurant
                                                                      Hotel
                                   Spanish Restaurant
             Seafood Restaurant
                                                         Chinese Restaurant
       14
             Spanish Restaurant
                                        Grocery Store
       17
                            Bar
                                                Plaza
                                                         Spanish Restaurant
```

```
5
           Brazilian Restaurant
                                         Grocery Store
                                                                  Supermarket
                  Grocery Store
                                       Bubble Tea Shop
       11
                                                        Fast Food Restaurant
             Italian Restaurant
                                           Coffee Shop
                                                                  Pizza Place
       14
       17
                         Church
                                         Grocery Store
                                                                 Soccer Field
          7th Most Common Venue 8th Most Common Venue 9th Most Common Venue
       5
                                    Chinese Restaurant
                                                                  Coffee Shop
                        Brewery
       11
                           CafÃľ
                                                Theater
                                                                 Noodle House
                                                Office
                                                          Chinese Restaurant
       14
                         Bakery
       17
                           Park
                                          Dessert Shop
                                                                 Fabric Shop
          10th Most Common Venue
       5
                     Pizza Place
       11
                Asian Restaurant
       14
                      Restaurant
       17
                            Food
      Examine Cluster 1. Only Hotels
[170]: | Madrid_hotels_merged.loc[Madrid_hotels_merged['Cluster Labels'] == 0, |
        →Madrid_hotels_merged.columns[[1] + list(range(5, Madrid_hotels_merged.
        →shape[1]))]]
[170]:
                         Name
                                Latitude Longitude Cluster Labels
                                                                          Hotel
       5
                       TetuÃan 40.459751
                                           -3.697500
                                                                     0
                                                                       0.048780
       9
                       Latina
                               40.411360
                                          -3.708417
                                                                    0 0.060000
           Puente de Vallecas
                               40.398204
                                           -3.669059
                                                                    0 0.071429
                Ciudad Lineal
                               40.445049
                                           -3.651320
                                                                    0 0.064516
       14
      Examine Cluster 2. Only Hotels
[176]: | Madrid_hotels_merged.loc[Madrid_hotels_merged['Cluster Labels'] == 1,__
        →Madrid_hotels_merged.columns[[1] + list(range(5, Madrid_hotels_merged.
        →shape[1]))]]
[176]:
                                            Longitude Cluster Labels
                          Name
                                 Latitude
                                                                           Hotel
       0
                        Centro 40.415347
                                            -3.707371
                                                                        0.026667
       1
                    Arganzuela 40.402733
                                            -3.695403
                                                                     1 0.022472
       2
                        Retiro
                                40.408072
                                            -3.676729
                                                                        0.000000
       3
                     Salamanca 40.429722
                                            -3.679750
                                                                     1 0.021739
                     ChamartÃnn 40.462059
       4
                                            -3.676600
                                                                      1 0.000000
       6
                      ChamberÃn 40.434040
                                            -3.703790
                                                                      1 0.010000
       7
           Fuencarral-El Pardo 40.478611
                                            -3.709722
                                                                     1 0.000000
       8
               Moncloa-Aravaca 40.435151
                                            -3.718765
                                                                     1 0.017857
                   Carabanchel 40.383670
                                            -3.727990
                                                                        0.000000
       10
                         Usera 40.381389
                                            -3.706944
                                                                        0.000000
       11
```

4th Most Common Venue 5th Most Common Venue 6th Most Common Venue \

```
13
             Moratalaz 40.409869
                                  -3.644436
                                                             0.000000
15
             Hortaleza 40.469457
                                  -3.640482
                                                            0.000000
16
            Villaverde 40.349998
                                  -3.701143
                                                          1 0.000000
     Villa de Vallecas 40.379597 -3.621347
17
                                                          1 0.000000
18
             VicÃalvaro 40.404200 -3.608060
                                                           1 0.000000
   San Blas-Canillejas 40.426001 -3.612764
                                                          1 0.000000
19
```

Examine Cluster 3. Only Hotels

```
[177]: Madrid_hotels_merged.loc[Madrid_hotels_merged['Cluster Labels'] == 2, □

→Madrid_hotels_merged.columns[[1] + list(range(5, Madrid_hotels_merged.

→shape[1]))]]

[177]: Name Latitude Longitude Cluster Labels Hotel

20 Barajas 40.470278 -3.585 2 0.225806
```

1.4 4.Results

Based on the information provided by Foursquare, we can see how most of the districts of Madrid are well provided with restaurants and other venues that can attract the attention of tourists.

The Barajas district is the one with the highest concentration of hotels. This makes sense, because it is the district where the international airport is located. Therefore this district should be avoided. It is also located on the outskirts of town.

Among the most central districts we can highlight two of them. Salamanca and Retiro.

Salamanca is well known for being one of the wealthiest and expensive areas in Madrid, with a high living cost and one of the highest real estate prices in the city. Serrano street is listed as the third most expensive street in Spain. A significant number of diplomatic missions are set in Salamanca district, such as the Swiss embassy at NuÃśez de Balboa with Goya street, the French embassy at Villalar Street, the United States embassy at 74 Serrano street, or the Italian embassy in Juan Bravo Street.(wikipedia)

Retiro's history has been strongly determined by the presence of the park with the same name and the railway facilities located at the south and west of this District. Retiro Park, together with Paseo del Prado, has given its own personality to the area of Los JerÃşnimos, while the rest of the District is determined by Atocha Railway Station and previously also by NiÃso JesÞs Station. During the 20th Century, the area consolidated as residential areas for people with a growing economic power.(wikipedia)

Both districts are well-stocked with tourist resources and have a low concentration of hotels. The biggest drawback is finding soil to build a hotel. Perhaps it would be easier to find a building to reform as a hotel.

1.5 5.Conclusion

Based on the analyzed data, my advice would be to focus on only two Madrid districts, Salamanca and Retiro, when investing on a new hotel. Especially being a high standing or luxury hotel.