

Where to Go When You Want to visit art museum and in the best way?

Introduction/Business Problem

The problem we aim to solve is to analyze art museum' locations in four of the the major World cities and find the best place for our tourist to take hotel really near mean coordinate to surround himself with the most art museum places there. Our main target are tourists with a really taste for art

Data section

I will use the FourSquare API to collect data about locations of Art museums in 4 major world art cities which are: New York, Rome, Florence, London

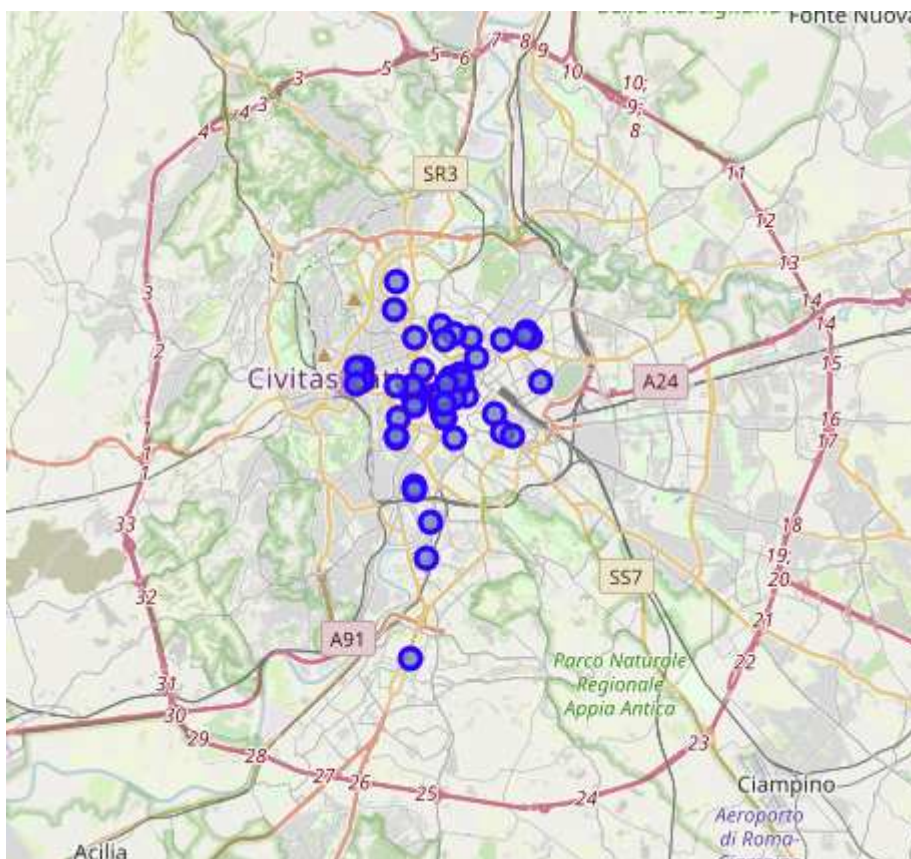
Methodology

My main target here is to asses which city would have the highest art museums density. I used the Four Square API through the venues channel. I used the near query to get venues in the cities. Also, I use the CategoryID to set it to show only Art Museums.

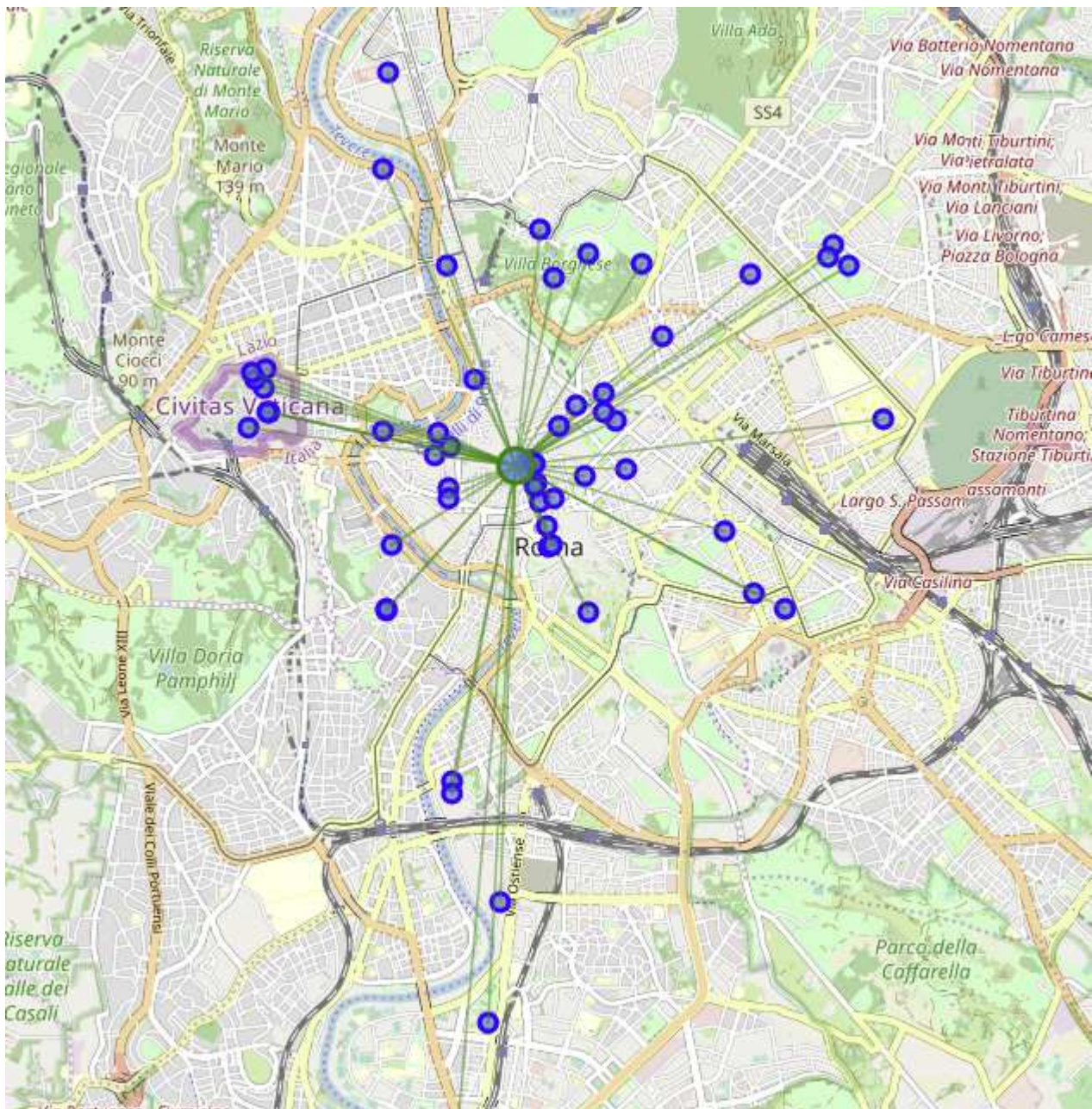
Next, to get an indicator of the density of Art museums, I calculated a center coordinate of the venues to get the mean longitude and latitude values. Then I calculated the mean of the Euclidean distance from each venue to the mean coordinates. That was my indicator; mean distance to the mean coordinate.

Results

For our initial visual inspection we see that they all have multiple art museums and often more than Foursquare would like to supply us. The following here are one pictures example of the geoplot generated with folium:



Upon First inspection we see that New York, Rome and Florence are the most densely cities. In the next phase we Calculate the Mean coordinate and the mean distance to mean coordinate(MDMC). We represent the mean coordinate with a big green circle and distances with green lines



Therefore our results are :

1. Florence
2. Rome
3. New York
4. London

Conclusion:

Now there is no doubt that Florence is the best place to visit Art Museums.
Also, we would recommend that our tourist book a hotel close to the mean coordinate.