

# Where to Go when you want to see the most numbers of art museums?

\*Data Science Capstone - IBM Data Science Professional Certificate on Coursera\*

## ## Introduction

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 Musseums.

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.