**Data**

Based on definition of our problem, factors that will influence our decision are:

* number of existing restaurants in the neighborhood (any type of restaurant)
* number of and distance to vegetarian or vegan restaurants in the neighborhood, if any
* distance of neighborhood from city center

We decided to use regularly spaced grid of locations, centered around city center, to define our neighborhoods.

Following data sources will be needed to extract/generate the required information:

* centers of candidate areas will be generated algorithmically and approximate addresses of centers of those areas will be obtained using **Open Street Map API reverse geocoding**
* number of restaurants and their type and location in every neighborhood will be obtained using **Foursquare API**
* coordinate of Turin center will be obtained using **Open Street Map API geocoding** of well known Turin location (Piazza Castello)

Immagine che contiene testo, mappa

Descrizione generata automaticamenteFIG. 1) Screenshot of the regularly spaced grid of locations generated.

Immagine che contiene testo, mappa

Descrizione generata automaticamente

FIG. 2) Screenshot of the restaurants around the city center (the red ones are the veg ones).

Immagine che contiene screenshot, bianco

Descrizione generata automaticamente

FIG. 3) Screenshot of the dataframe with the info for every grid (see FIG. 1).