In this problem I am trying to discover the best neighborhood to open a Vegan / Vegetarian restaurant in Belo Horizonte.

First of all, in the Wikipedia site, <https://pt.wikipedia.org/wiki/Lista_de_bairros_de_Belo_Horizonte> I will get the neighborhood´s list parsing with Beautiful Soup.

**Índice Zona Regional Bairro**

0 1 ZONA LESTE Leste Sagrada%20Familia

1 2 ZONA SUL Oeste Buritis

2 3 ZONA OESTE Noroeste Padre%20Eustaquio

3 4 ZONA OESTE Barreiro Lindeia

4 5 ZONA NORTE Pamp./ Venda Nova Santa%20Monica

After that, I will access [http://geocoder.pbh.gov.br/geocoder/0.0.1/address?bairro={}](http://geocoder.pbh.gov.br/geocoder/0.0.1/address?bairro=%7b%7d), that is a City Hall official site and get the UTM directions of all neighborhoods.

**Índice Zona Regional Longitude Latitude**

**Bairro**

Sagrada%20Familia 1 ZONA LESTE Leste 612477.03312361 7798062.0556387

Buritis 2 ZONA SUL Oeste 607309.483827017 7790358.9561129

Padre%20Eustaquio 3 ZONA OESTE Noroeste 606271.46842147 7796962.48553224

Lindeia 4 ZONA OESTE Barreiro 598880.339164215 7789696.98561535

Santa%20Monica 5 ZONA NORTE Pamp./ Venda Nova 606776.058212129 7806845.18917881

Them, I will use the pyproj library to get the Geographical Coordinates and use the foursquase API.

**Bairro Zona Regional Long Lat**

Sagrada Familia ZONA LESTE Leste -43.925402 -19.910513

Buritis ZONA SUL Oeste -43.974317 -19.980404

Padre Eustaquio ZONA OESTE Noroeste -43.984619 -19.920796

Lindeia ZONA OESTE Barreiro -44.054840 -19.986833

With this DataFrame, I can access the foursquare data to cluster and define the best place to open this Vegas/Vegetarian Restaurant.