

Data for solving New Orleans problems

The data I will be using will come from Foursquare API location data. I will be requesting the data through the API, exploring the venues that it comes up with and comparing the different areas by what kinds of venues they have. The data would include various venues such as parks, eating joints, ethnic restaurants, shopping areas, etc. This would give a good idea as to which neighborhoods have a large restaurant presence, and which areas may be lacking eating joints, and could benefit from Help New Orleans provide this neighborhood with an appropriate entrepreneur chef that is looking for a place that could benefit from an eating business.

Here is a sample of preliminary data that I scraped from a wikipedia page, which had a list of New Orleans neighborhoods.

Neighborhood	Longitude	Latitude
U.S. NAVAL BASE	-90.02609253	29.94608469
ALGIERS POINT	-90.0516057	29.95246187
WHITNEY	-90.04235744	29.94720026
AUDUBON	-90.12145042	29.93299437
OLD AURORA	-90	29.92444011
B. W. COOPER	-90.09175301	29.95177397
BAYOU ST. JOHN	-90.08651733	29.97607064
BEHRMAN	-90.02643585	29.9348167
BLACK PEARL	-90.13488293	29.93589521
BROADMOOR	-90.10381222	29.9465681

From this information, I could then go to Foursquare API and fetch the venue information for each of New Orleans' neighborhoods.

Here is a sample of what Foursquare API results come back for a certain neighborhood called Algiers Point.

```
{ 'meta': { 'code': 200, 'requestId':  
  '6007606ed4ffb81a7ce4a815' },  
  'response': { 'suggestedFilters': { 'header': 'Tap to  
show:',  
  'filters': [ { 'name': 'Open now', 'key': 'openNow' },
```

```
{'name': '$-$$$$', 'key': 'price'}}},
'headerLocation': 'Algiers Point',
'headerFullLocation': 'Algiers Point, New Orleans',
'headerLocationGranularity': 'neighborhood',
'totalResults': 25,
'suggestedBounds': {'ne': {'lat': 29.956961874500006,
  'lng': -90.04642172567442},
  'sw': {'lat': 29.947961865499995, 'lng':
-90.05678967432557}},
'groups': [{ 'type': 'Recommended Places',
  'name': 'recommended',
  'items': [{ 'reasons': { 'count': 0,
    'items': [{ 'summary': 'This spot is popular',
      'type': 'general',
      'reasonName': 'globalInteractionReason' } ] }},
  'venue': { 'id': '4ba101aaf964a5204a8e37e3',
    'name': 'Tout de Suite Café',
    'location': { 'address': '347 Verret St',
      'crossStreet': 'Alix',
      'lat': 29.95212113610269,
      'lng': -90.05108964349343,
      'labeledLatLngs': [{ 'label': 'display',
        'lat': 29.95212113610269,
        'lng': -90.05108964349343 },
        { 'label': 'entrance', 'lat': 29.952167, 'lng':
-90.051072 } ] },
      'distance': 62,
      'postalCode': '70114',
      'cc': 'US',
      'city': 'New Orleans',
      'state': 'LA',
      'country': 'United States',
      'formattedAddress': [ '347 Verret St (Alix)',
        'New Orleans, LA 70114',
        'United States' ] },
      'categories': [ { 'id':
'4bf58dd8d48988d16d941735',
        'name': 'Café',
```

```
    'pluralName': 'Cafés',
    'shortName': 'Café',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/
categories_v2/food/cafe_',
            'suffix': '.png'},
    'primary': True}],
    'photos': {'count': 0, 'groups': []}},
    'referralId': 'e-0-4ba101aaf964a5204a8e37e3-0'},
    {'reasons': {'count': 0,
    'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]}],
```

From information like this, a methodology can be set up to try to solve the business problem of helping New Orleans' eating establishments and the local residents who would like to use the eating services.