

For this project the postal code of Toronto will be fetched from the Wikipedia page. data will be retrieved to get the boroughs.

[https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)

This will provide the data for each borough and then the neighborhood.

Foursquare API will be used to get the categories of the type of things present in the borough and neighborhood like pubs, restaurants etc.

A Foursquare API Call is like the following:

```
{u'meta': {u'code': 200, u'requestId': u'5b9c198d4c1f670d9370f3df'},
u'response': {u'groups': [{u'items': [{u'reasons': {u'count': 0,
u'items': [{u'reasonName': u'globalInteractionReason',
u'summary': u'This spot is popular',
u'type': u'general'}]},
u'referralId': u'e-0-4e77e3861f6ecf8d3648300c-0',
u'venue': {u'categories': [{u'icon': {u'prefix': u'https://ss3.4s
qi.net/img/categories_v2/food/coffeeshop_',
u'suffix': u'.png'},
u'id': u'4bf58dd8d48988d1e0931735',
u'name': u'Coffee Shop',
u'pluralName': u'Coffee Shops',
u'primary': True,
u'shortName': u'Coffee Shop'}]},
u'id': u'4e77e3861f6ecf8d3648300c',
u'location': {u'address': u'637 Kingston Rd.',
u'cc': u'CA',
u'city': u'Toronto',
u'country': u'Canada',
u'crossStreet': u'at Main St.',
u'distance': 486,
u'formattedAddress': [u'637 Kingston Rd. (at Main St.)',
u'Toronto ON M4E 1R3',
u'Canada'],
u'labeledLatLngs': [{u'label': u'display',
u'lat': 43.67879837444001,
u'lng': -79.2980449760153}],
u'lat': 43.67879837444001,
u'lng': -79.2980449760153,
u'postalCode': u'M4E 1R3',
u'state': u'ON'},
u'name': u'Starbucks',
u'photos': {u'count': 0, u'groups': []}},
{u'reasons': {u'count': 0,
u'items': [{u'reasonName': u'globalInteractionReason',
u'summary': u'This spot is popular',
u'type': u'general'}]},
u'referralId': u'e-0-4b8daea1f964a520480833e3-1',
u'venue': {u'categories': [{u'icon': {u'prefix': u'https://ss3.4s
qi.net/img/categories_v2/nightlife/pub_',
u'suffix': u'.png'},
u'id': u'4bf58dd8d48988d11b941735',
u'name': u'Pub',
u'pluralName': u'Pubs',
u'primary': True,
```

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    u'shortName': u'Pub']],
u'id': u'4b8daealf964a520480833e3',
u'location': {u'address': u'676 Kingston Rd.',
  u'cc': u'CA',
  u'city': u'Toronto',
  u'country': u'Canada',
  u'crossStreet': u'at Main St.',
  u'distance': 460,
  u'formattedAddress': [u'676 Kingston Rd. (at Main St.)',
    u'Toronto ON M4E 1R4',
    u'Canada'],
  u'labeledLatLngs': [{u'label': u'display',
    u'lat': 43.679181434941015,
    u'lng': -79.29721535878515}],
  u'lat': 43.679181434941015,
  u'lng': -79.29721535878515,
  u'postalCode': u'M4E 1R4',
  u'state': u'ON'},
u'name': u'Grover Pub and Grub',
u'photos': {u'count': 0, u'groups': []}},
{u'reasons': {u'count': 0,
  u'items': [{u'reasonName': u'globalInteractionReason',
    u'summary': u'This spot is popular',
    u'type': u'general'}]},
  u'referralId': u'e-0-4df91c4bae60f95f82229ad5-2',
  u'venue': {u'categories': [{u'icon': {u'prefix': u'https://ss3.4s
qi.net/img/categories_v2/parks_outdoors/neighborhood_',
  u'suffix': u'.png'},
    u'id': u'4f2a25ac4b909258e854f55f',
    u'name': u'Neighborhood',
    u'pluralName': u'Neighborhoods',
    u'primary': True,
    u'shortName': u'Neighborhood'}]},
  u'id': u'4df91c4bae60f95f82229ad5',
  u'location': {u'cc': u'CA',
    u'city': u'Toronto',
    u'country': u'Canada',
    u'distance': 468,
    u'formattedAddress': [u'Toronto ON', u'Canada'],
    u'labeledLatLngs': [{u'label': u'display',
      u'lat': 43.68056321147582,
      u'lng': -79.2928688743688}],
    u'lat': 43.68056321147582,
    u'lng': -79.2928688743688,
    u'state': u'ON'},
  u'name': u'Upper Beaches',
  u'photos': {u'count': 0, u'groups': []}},
{u'reasons': {u'count': 0,
  u'items': [{u'reasonName': u'globalInteractionReason',
    u'summary': u'This spot is popular',
    u'type': u'general'}]},
  u'referralId': u'e-0-4dbdfa5effcbcd485670ef68-3',
  u'venue': {u'categories': [{u'icon': {u'prefix': u'https://ss3.4s
qi.net/img/categories_v2/building/gym_',
  u'suffix': u'.png'},
    u'id': u'4bf58dd8d48988d175941735',
    u'name': u'Gym / Fitness Center',
    u'pluralName': u'Gyms or Fitness Centers',

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```
    u'primary': True,
    u'shortName': u'Gym / Fitness'}]],
u'id': u'4dbdfa5effcbcd485670ef68',
u'location': {u'address': u'862 Kingston Rd',
    u'cc': u'CA',
    u'city': u'Toronto',
    u'country': u'Canada',
    u'crossStreet': u'Beech Ave.',
    u'distance': 470,
    u'formattedAddress': [u'862 Kingston Rd (Beech Ave.)',
        u'Toronto ON M4E 1S3',
        u'Canada'],
    u'labeledLatLngs': [{u'label': u'display',
        u'lat': 43.68031856425797,
        u'lng': -79.29099082946777}],
    u'lat': 43.68031856425797,
    u'lng': -79.29099082946777,
    u'postalCode': u'M4E 1S3',
    u'state': u'ON'},
u'name': u'Beaches Fitness',
u'photos': {u'count': 0, u'groups': []},
u'venuePage': {u'id': u'64837476'}}]],
u'name': u'recommended',
u'type': u'Recommended Places'}]],
u'headerFullLocation': u'The Beaches, Toronto',
u'headerLocation': u'The Beaches',
u'headerLocationGranularity': u'neighborhood',
u'suggestedBounds': {u'ne': {u'lat': 43.6808574045,
    u'lng': -79.28682091449052},
    u'sw': {u'lat': 43.6718573955, u'lng': -79.29924148550948}},
u'totalResults': 4}}
```